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<210> 1934

<211> 789

<212> DNA

<213> Homo sapiens

<400> 1934

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 tgagtgcgga agtgaagggt acagggcaga accaggagca atttctgctc ctagccaagt 180
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<210> 1935

<211> 828

<212> DNA

<213> Homo sapiens

<400> 1935

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 aatgggcaag cgtctgtcct aggagccgtg tgctgggcca cagttaaate tgagagatca 360
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 catggtttat aaagctgttt ttcattttct ccatacagga caacagcttt gagcagttca 480
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<210> 1936

<211> 820

<212> DNA

<213> Homo sapiens

<400> 1936

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<210> 1937

<211> 844

<212> DNA

<213> Homo sapiens

<400> 1937

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ctcagcatct acccagtatg aggagtgtat cagagctggg aaggtgattc cagagcaggg 180
gaaaatgcaa gctccactaa taaaaatgag gtgaggcaac cagtgcacag cgaggggttc 240
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cacaagaccc aacaacctca caaatccaac agacgaccaa caatagctgg ggacatgctc 300
 aagaccaca gagcaagtgc atgaagccag ggcaaggggc agcagtgagg acaaattctt 360
 ccatgagtac tgtgggtctt agcctcaact cactaaaagg cctctagaga caataattaa 420
 aataaccagt ggctcctcga ggaatggagg ctaaggagca aactgccaaa cttattctgg 480
 ctggaattgg tggctgtttt ctatggaaca cacaagactc aagaatggcc aatgaccact 540
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 ggcttgtgtt tagcttggca tgatggtatt cccattgntt agtatttcaa tttcaacatc 660
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<210> 1938

<211> 795

<212> DNA

<213> Homo sapiens

<400> 1938

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cttcagatgt gaaagccagg caggccatta gagttacttg gggtagaaaa aagtcttgg 720
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<210> 1939

<211> 856

<212> DNA

<213> Homo sapiens

<400> 1939

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 agaatatggg actaatgcaa aggagtctgt aacagactat actacaccct cttcttcttt 180
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 ttcagttcct cccactactt tcagcctcac cttcaagatg gagtctgcac gcaaagcatg 360
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<210> 1940

<211> 838

<212> DNA

<213> Homo sapiens

<400> 1940

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gaacgagaag gccccggtgg acttcggcta cgtggggatt gactccatcc tggagcagat  180
gcgccggaag gccatgaagc agggcttcga gttcaacatc atggtggtcg ggcagagcgg  240
cttgggtaaa tccaccttaa tcaacaccct cttcaaattc aaaatcagcc ggaagtcggt  300
gcagcccacc tcagaggagc gcatcccca gaccatcgag atcaagtcca tcacgcacga  360
tattgaggag aaaggcgtcc ggatgaagct gacagtgatt gacacaccag ggttcgggga  420
ccacatcaac aacgagaact gctggcagcc catcatgaag ttcataatg accagtacga  480
gaaataacctg caggaggagg tcaacatcaa ccgcaagaag cgcattccgg acaccgcgt  540
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agggaggcgt cttcatctcc tggcatcccc tctnagcca cccccggccc caccgggctt  720
gaagtgtctg tgatgccctg ggatctgatt gaggatnaaa anggaaggag agatgacccc  780
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<210> 1941

<211> 658

<212> DNA

<213> Homo sapiens

<400> 1941

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agtcgcgcag agtggagtca aaggcaacca gtgctcgctg cggctcttgg ggatcgggac   60
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agccggtggc aggcggtggg cagcccaatg gagatgctcc acccgagcag ccgtccgana  180
cgggtggctga gtctgcggag gaggagctgc agcaagcggg agaccaggag ctccctccacc  240
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ctgaatcagt tgctgaaaca gcacaaacaa taaagaaatc cgtanaagaa ggaaaaatag 360
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 ccctccggct ggctgcaat ttaatttcna ctttgatcag atgtccccgt ggccctggtc 600
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<210> 1942

<211> 398

<212> DNA

<213> Homo sapiens

<400> 1942

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 gaatgactgg aaactgattg gaaactcttt gggaaagcca ctgaaaagg gtatatattac 180
 ttctggcaca tgggaagaga aatcagatga aatttccttt gctgacttca gttctcagtc 240
 actcatcatt atcttgtaca ggtccactg ataagaagga aggatgatta tagaggatgt 300
 gtcccacaac ctatgccaaag aattggctgg ggtttgaatt aanaacttcc ncccaaaacc 360
 acntggccng ttaaaatggt ttgggctnct taattcct 398

<210> 1943

<211> 641

<212> DNA

<213> Homo sapiens

<400> 1943

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aaagctactc gctaccagct tggacctgtc tgcagtatct cctctgggac ctgccatgct 180
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 aggccgggac tgacaccact ggccangaag tggctgaagc tcanctggat gangatgggg 600
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<210> 1944

<211> 845

<212> DNA

<213> Homo sapiens

<400> 1944

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 catcatcctc ttcacagggt tctgcatctt agcctgctgc taccactgc tgaaactccc 180
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 cagccaacgc gctacgaacg gcaactggct gtnaagccgt ccacaccca caccatcacg 720
 ttgcagccgt cttccttccg aaaactgcgg ntcccaana agctgctttt gtctacttcc 780

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ataac 845

<210> 1945

<211> 821

<212> DNA

<213> Homo sapiens

<400> 1945

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cgggaaagtt gccctctggt gtctcagcta agttgaagcg ctggaagaaa ggccacagca 180
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<210> 1946

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1946

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 ngaagctcgg ctggantgga aatggcanca 570

<210> 1947

<211> 535

<212> DNA

<213> Homo sapiens

<400> 1947

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 gacgtgcagc tgcgaagtgc ttggatgccg tagttagcac aaggcatgaa atgcttccag 180
 aattctacaa gaccgtctct cctgcactaa tatccagatt taaagagcgt gaagagaatg 240
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<210> 1948

<211> 562

<212> DNA

<213> Homo sapiens

<400> 1948

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ccctcacagc ccctccaaga cagatgggaa agaattagct gggaccatgg atggagaagg   180
gacgctcttc cagactgaaa gccctcagtc tggcagcatt ctaacagagg anactgaggt   240
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nggaggangg ccgctgctcc ancagtgcag atgacaccga cgtggacatg ganggtctgc   480
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<210> 1949

<211> 584

<212> DNA

<213> Homo sapiens

<400> 1949

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cattcagcaa cgagcgacct ccacagccaa gacttggttg gacagatatg aagagtttgt   180
tggaactaac gaggttcgag aggcccagg gaaaggtgac agaggctgag aaagtgttca   240
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gtgcagaaga ctctgagcga gagaagttct ccctcttctc tgcagctgtg cgggaaagtc 480
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<210> 1950

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1950

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gtatccgctg cctccgttat nanatcn 567

<210> 1951

<211> 568

<212> DNA

<213> Homo sapiens

<400> 1951

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caggcaacaa acgcgccgcc ggcgacgggg gctcagggcc cccgaaaag aagctgagtc 180
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 ctgtggaagc ccctctccga tgccatgaga gccaggggga gctgtcttca ncgcctgagg 480
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<210> 1952

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1952

actttccct ctccgtctcc tgcgggcgca atggaggagg aggatgagga agcgcgggcg 60
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 ccggccctct gcgacccag tcgcctggcg caccggcttt tgggtgctgtt actgatgtgc 180
 ttccttggt ttggcagcta tttttgctat gataatcctg ctgcccttca gactcnagtt 240
 aaacgagata tgcaagtga taccacgaaa ttcattgctgc tgtntgcctg gtattcttgg 300
 cccaatgtan ttttgtgtt cnttggtggc tttttgatan accgagtatt tggaatacga 360
 tggggcacia tcatttttag ctgctttgtt tgcatggac aggttgtttt tgccctgggt 420
 ggaatattta atgctttttg gctgatggaa tttggaanat ttgtatttgg gattggtggc 480
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<210> 1953

<211> 690

<212> DNA

<213> Homo sapiens

<400> 1953

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tttacgatat ccaaataaac tggacaccat cacatggacg tggcaaggac ctggagcgct   60
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tgtgtacagc ctttctgagg aggagaagag gaaccccgcg ctgtatgcca gcaacgtgcg  180
gcgagtcatg gccgaggcct tgggtgtctc cgtgactgac tacacgttcg aggactgcca  240
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cagcggcgag gtggacctgc gagagtgtgt ggttgccctg tctgtcgtct gccggccggc  540
ccggaccctg gacaccatcc anctggcttt caagacgtac ggagcgcaan aagacggcag  600
cgtcgcgaa ngtgaactgt cctgcctcct ccanacggcc tgggggtggc agaactcacc  660
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<210> 1954

<211> 772

<212> DNA

<213> Homo sapiens

<400> 1954

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aaaagacaat caagacggcc ggccgaggcc cctggaacgg cttaggcggc tgcggctgct   60
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gaggacatcc tgcggcccag gggcaagtga cacctgctga gagaggccca ggatggtgga  180
ggctgaggaa ctggcacagc tgcggctgct caatctggag ctctgaggc agctgtgggt  240
ggggcaggat gctgtgcggc ggtcagtggc cagggcagcc tcggagtcaa gcctggaatc  300
cagcagcagc tacaactcag agactccatc gacccagag acgtcctcaa cttccttgag  360
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cctccgtgat gtggccagat cgggggtggc ctctctccca cctgcccaatt gccagcacca 480
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 ggacccagag ccctcagga agctgggtga tccaggaccc aggaggcaca gaccccgagg 600
 tcatectggc tcaacagagc aactgtccaa gcccagggtg acttctctga agaattctga 660
 ttccctgaaa agaacttgcg cctccaggnc ataccttggg tatgaatgga ttgcnttttt 720
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<210> 1955

<211> 623

<212> DNA

<213> Homo sapiens

<400> 1955

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 ccaggatgag gancaggatca agtccttttt ggagaacatg gaggtggagt gcaactacca 120
 ctgctaccac gaaaaggacc cggacggttg ctatcggctg gtggactatt tggaagggat 180
 ccggaanaat tttgatgagg ctgccaaggt gttgaagttt aactgtgaan anaaccagca 240
 cagtgatagc tgctacaaac tgggggcccc ctatgtgact ggaaaagggtg gtctgaccca 300
 ggacctgaaa gctgccgcca ggtgcttttt gatggcgtgt ganaancctg gaaagaantc 360
 aatagcagca tgtcacaacg ttggcctcct ggcacatgat ggacagggtta atgaggatgg 420
 ccagcctgac ttgggaaagg ccaggggact actacacaag ggcctgtgat ggtggctata 480
 cttccagttg cttcaacctc agtgccatgt tctgcaggg tgccccangc tttcccaang 540
 acatggacct ggcatgtnaa tactccatga aagcctgtga cctgggtcat atctgggcct 600
 gtgccaatgc cantcccatg tnc 623

<210> 1956

<211> 830

<212> DNA

<213> Homo sapiens

<400> 1956

gtaactttta agtggtcggg acacgccccg cgctgctggg tcccgccaga cacgccgccg 60
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 catgantgtt aggcccgacg cctggccctt ggagccttg gangtggtg gggctgcttt 180
 tgcctttgcc aganacagct ccaactgang acctctcaa cgggcccatc cacagtcctt 240
 ccttccccta gtgtctggga anacaggcgc gatgatggac tcccgttcc tggagctgtg 300
 gcagtccaag gcagtgtcca tcaggagca gctgggactc ggggaccggc ccaacgactc 360
 ctattgctac aactcggcca aaaacagcac cgtgctccag ggggtcacct ttggtggcat 420
 cccactgtc ctgctcatag acgtcagctg cttcctgtt ttaatcttgg tgttttctat 480
 tataagaaga aaattctggg actatggccg cattgccctg gtgtcagaan cagacagcga 540
 ntccagattt caganattgt catcgacttc ctctcaggt caacaagact ttgaaaatga 600
 actggggatg ctgtccctgg gctgacttgc catcttccgt ctgcatgatg aacaaatcct 660
 ggaatggtgt tgggaagacc catccactac ctgtccttcc anaaggcaca tcattctccc 720
 tgtttggtgg gtggtcactt tttgtccct gtgttttcac ctgncgttta anctctccag 780
 gggaatttct tggganaaaa aancctttta attttnggg aagaaaacca 830

<210> 1957

<211> 457

<212> DNA

<213> Homo sapiens

<400> 1957

aaaaggccag cggcgcaaaa tggcggcggc gatgaccttc tgccggctgc tgaaccggtg 60
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 gaccggggan aangtcacgc aactggcca ggtttatgat gataaagact acaggagaat 180
 tcggtttgta ggctgtcaga aagaggtgaa tgaaaacttt gccattgatt tgatagcaga 240
 gcancccggt agcgangtgg anactcgggt gataccgtgc gatggcggcg ggggagctct 300
 tggccacca aaagtgtnta taaacttga caaagaaaca aaaaccggca catgcggtta 360

ctgtgggctc cagttcanac ancaccacca ctanagcgtg tggcacgccg ggggtcccgc 420
ancatcctgt gagcatttcc gcggggaagc tgancac 457

<210> 1958

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1958

gtcggagggc ggCgggcgcc gacctcagcg cgcacctatg ggctcgctac caggacatgc 60
ggagactggc gcacgacctc ctgccccccg aggtctgcag tctcctgaac ccagcagcca 120
tctacgccga caacgagatc agcctgcgtg acgttgaggc ctacggcttt gactacgact 180
acaccctggc ccagtatgca gacgcactgc accccgagat cttcagtacc gcccgtagaca 240
tctgatcgga gcactacaag taccagaag ggattcggaa gtatgactac aaccccagct 300
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tccactacgt gcagctgggg acagcctaca ggggcctcca gcctgtgcca gacgaggagg 420
tgattgagct gtatgggggt acccagcaca tccactata ccagatgagt ggcttctatg 480
gcaagggtcc ctccattaag cagttcatgg acatcttctc gctaccggag atggctctgc 540
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acaaggacgt tacggaccn tccgaaactt catgttaaag ggcctcatgt tccanttgga 660
ttcaaccagg acatggaaaa aattctcct gaaaagggga tnaaaacttt gcttttctn 720
aanccccctg gtgg 734

<210> 1959

<211> 676

<212> DNA

<213> Homo sapiens

<400> 1959

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 tgtgtacagc ccttctgagg aggagaagag gaaccccgcg ctgtatgcca gcaacgtgcg 180
 gcgagtcatg gccgaggcct tgggtgtctc cgtgactgac tacacgttcg aggactgcca 240
 gctggccctg gcggaaggac agctccgtct ccccgctgac acttgccttt tagaatttgc 300
 caggctcgtg cggggcctcg ggctaaaacc agaaaagctt gaaaaagatc tggacagata 360
 ctengaaaga gccaggatga agggaggaga gaagataggt attgcggagt ttgccgcctc 420
 cctggaagtc cccgtttctg acttgctgga agacatgttt tcaactgttcg acgagagcgg 480
 cagcggcgag gtggacctgc gagagtgtgt ggttgccctg tctgtcgtct gccggccggc 540
 ccggaccctg gacacccatcc agctggcctt caagacgtac ggaacgcaag aagacggcag 600
 cgtcngcgaa agtgacctgt cctgcaccc cnanacggcc tgggggtggc agaactcacc 660
 gtgaccnanc tattcc 676

<210> 1960

<211> 586

<212> DNA

<213> Homo sapiens

<400> 1960

cttgtgggtg gaaacgcgct ggctgactgg ggtcggcggt tagttcagcg cagcgactcg 60
 gggacctgga gctgacgcct agacacttgt attagcttta atagaagana aatggaggag 120
 ccatagaata ttaaggatga attcaggaag gcctgagacc atggaaaact tgcctgctct 180
 ctacactatt ttccaaggag aggttgctat ggtgacagac tatggggcct ttatcaaaat 240
 cccaggctgt cggaagcaag gtctggtcca tcgaactcat atgtcatcct gtcgggtgga 300
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 gatgaaaaat gatagaataa aagtatccct ctccatgaan gttgtcaatc aagggactgg 420
 gaaagacctt gatcccaaca atgttatcat tgagcaagaa nanangcgga agcgatcctt 480
 ccaggattac actgggcana aaatcaccct tgaagctgtc ttgaacacta cctgcaanaa 540
 atgtggctgt aaaggccact ttgcaaaaana ttgtttcatg cnaccn 586

<210> 1961

<211> 721

<212> DNA

<213> Homo sapiens

<400> 1961

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tgttaccact acggtgacca gcccagttct gtgtaataac aacatctccg agggcgaagg   60
gtatgtggag tctccagatc tggggagccc cgtcagccgc accctggggc tcctggactg   120
cacttacagc atccatgtct accctggcta cggcattgan atccaggtgc agacgctgaa   180
cctgtcacag gaagaagggc tcctggtgct ggctggtggg ggatccccag gcctggcccc   240
ccgactcctg gccaaactcat ccatgcttgg agaaggacaa gtccttcgga gccaaccaa   300
ccggctgctt ctgcacttcc agagcccacg ggtcccaagg ggcggtggct tcaggatcca   360
ctatcaggcc tacctcctga gctgtggctt cctccccgg ccggcccatg gggacgtgag   420
tgtgacggac ctgcaccctg ggggcactgc cacccttcac tgtgattcgg gctaccanct   480
gcagggagan ganaccctca tctgcctcaa tggcaccggg ccatcctgga acggtgaaac   540
ccccanctgc atggcatcct gtggtggcac catccacaat gccaccctgg gccgcacgt   600
gtcccanaac ctgggggaac cgtanggcc aacctacct gccgttgggt ccttgaaaca   660
actnaagggc ccngctgca cctgcacttt naaaaggtct ccctggatga agaacatnaa   720
c                                                                    721
    
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<210> 1962

<211> 762

<212> DNA

<213> Homo sapiens

<400> 1962

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atattccatg gagaccctgg ctggaggatt gcaggagagt cccaggaggc aggactgcca   60
atggcaccag gcttcgcagc catgcacctg cagccctcag gcagcactgt ccattgtcat   120
    
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acgantgtgg caggtgtgag gcatcgcac tgctcacc cc gggggataat gcacagcagc 180
 tacaggcaga tttcgggcc ganancaacc gagtgagcct tgcagcctct gctgccagca 240
 caggcttggt ccttcaacac tgggtgganan agacacgctg tcatcaggcc caagaaatac 300
 tgccttcccc atcctatccc cggctactgg gtgcccgcag agtgtcccag angaggagg 360
 gagggaccct ccactgggtc aaatggcctg ttctcagaga tgcagcaatg gaccctcgtg 420
 aatactgaac tgataatcat gggaaggaga ctggctctcc tggattccct catgattcct 480
 ctgantgaca atgtgatgtt ggccgactgt gtcttcttca gaatatcata tacacttgag 540
 gtctccagga ancctccaat tacattatct tcctgggtca tacagtgaca agtaattctt 600
 atcctggatt cctcgttact ganacttttc ttgccttttt tgttancctta tgattttattc 660
 taaggacttc ctccaacagg ttataacttaa ctgtctacct cantctctgg aanttttaaa 720
 aatgttcanc ttaattaaaa aaatnaattc tcctggnaaa cc 762

<210> 1963

<211> 829

<212> DNA

<213> Homo sapiens

<400> 1963

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 cctgcagccc ccctctgcgc tgagcggcgg ccagccggca gacacacaaa ctcgggccac 180
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 gaaagctact gacactgcc ccagaaggaa tgtcagaaaa ggtacaacta ttattacagc 360
 taaaaccac tgagtaagca aaaatcagag gaagagctca aggacaagaa ccagctgtta 420
 gaagccgtca acaagcagtt gcaccagaag ttgactgaaa ctcagggaga gctgaaggac 480
 ctgaccaga aggtagagct gctggagaag tttcgggaca actgtttggc aattttggag 540
 agcaagggcc ttgatccagc ttaggcagt gagaccctgg catcacgaca agaatccact 600
 actgatcaca tggactctat gttgctgtta gaaactttgc aagaaggact gaagcttttt 660

aacgaaacag ccaaaaagca gatggaagan ttncaggnc taaaggttaa gctggagatg 720
 aaagaagaaa gaatccgatt cctagaacag caaaccttat gttacaatcc agttaantga 780
 tttaaccacn gcccttaaag aaaatgganc ngcttattan aaaatgtta 829

<210> 1964

<211> 462

<212> DNA

<213> Homo sapiens

<400> 1964

gtgcggccgg cgcacccccg atggatcgcg gcggcggcgg ctccgggacg ggatcccggc 60
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 cggacctctc agcccaacta ccggcctcaa ggcatggagg gatTTTTgaa atcagatgag 180
 aggacagatg tggccaaaga aagacgagaa gaaagagaaa aatgtctggc tgctcgggag 240
 caacagatcc tggagaaaacn gaaaanagcc aggctgcagt acgaaaagcn aatggaggag 300
 cgatggcgaa aactggaaga gcagcggcag cgggaggacc aaaagagagc tncgtgtgaa 360
 gagaaaagga aacataaanc tccgggagga ngacganccg ctggaggcga tgatgcgccg 420
 gtccctngag cgcacacagc agctgggagc tgaaaaanaa gt 462

<210> 1965

<211> 671

<212> DNA

<213> Homo sapiens

<400> 1965

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 tctttgccta catgaaccac agagtcccc ggacgaggaa ggagatcttc gaaaccctca 180
 tcaagggcct gcagcggctg gactacagag gctacgactc ggcaggtgtg gcgatcgatg 240

ggaataatca cgaagtcaaa gaaagacaca ttcagctggt caagaaaagg gggaaagtca 300
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cacacttcgg cattgcccac acgcgctggg ccaccacgg ggtccccagt gctgtcaaca 420
gccaccctca gcgctcagac aaaggcaacg aatttgttgt catccacaat gggatcatca 480
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aacagatnca gaagaccatc gccaaagctg attaaattat gtgttcgaca acagnanaaa 600
ctgaaggaca ttacgttttt ccaccgttgg ttccaaaaaa anttcattcc ancaantttg 660
ggaaagggtgc a 671

<210> 1966

<211> 738

<212> DNA

<213> Homo sapiens

<400> 1966

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gggcacgagt ttctggagtt cgaatttcgg ccggacggaa agcttagata tgccaacaac 180
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gaagaactga agagaattat tgatgacagt gaaattacaa aagaagatga tgctttgttg 300
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tcttttacca catcaaaaat aggttctctt attgatgtna atcagtcaaa ggatcctgaa 420
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taattaangg atgggnangg gttatttgtc atttacngta ttgggggttt ttatgaaatg 600
ttgaagccaa accaaaaaaa atttgttatg ttaaaactgga aaaataaaga aaaatacatt 660
tanccaaagc tntaaatggt tatcccttta actttgantt ccccatgtg ggnttgggac 720
aagtcccccc acaacaac 738

<210> 1967

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1967

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aatgccaaaa tggcgatgcc taccacctan aactggattg tgcgctccat ttctttcacc   60
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gaagcaagcc attttgcaag cctggaagga gcgctggagt gactaccaat gggcaatcaa  180
catgaagaaa ttctttccta aaggagccac ctgggatatt ctcaacctgg cagatgcgtt  240
actagagcag gccatgattg gaccatcccc caatcctctc atcttgtcct acctgaagta  300
tgccattagt tcccagtttg atgacttttc tcgggacctg tgtgtccagg cattgctgga  360
catcatggac atgttttgtg accgtctgag ctgtcacggc aaagcagang aaatgcatcg  420
gactgtgccg agcccttctt ancgccctcc actggctgct gcgctgcacg gcagcctctg  480
canaacggct gcggganggg ctggangccg gcactccagc cgctggggga naa          533

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<210> 1968

<211> 613

<212> DNA

<213> Homo sapiens

<400> 1968

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aagaaggcgg cgggggaaga ggcggtcctg gggtagagtt tgcaagcttt ctgactaggc   60
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cggctatggc gaacaggaac tggatgccaa ctctgccctt atggaattgg acaaaggcct  180
aagatctggc aaacttggtg aacagtgtga agcagttgtt cgctttccca gactttgtca  240
gaagtatcca ttccctattc ttatcaattc tgcattccta aagttagctg atgttttcag  300
agttggaaat aatttcctga ggctatgtgt tcttaaagtt acccancaaa gtgagaaaca  360
tttggagaac attctaaatg tggatgaatt tgtgaagaga attttttctg tgattcatag  420

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taatgacct gtggcaatag ccatcaccct ccggatgttg ggaagtctgg catcaataat 480
 tcctgagagg aagaatgctc atcatagtat tcgtcagaat ttagattcac atgataatgt 540
 tacaanttga agcttgctgt ttttggctgc ctgcaaactt ctctggcncc ngtcnnaaan 600
 ggattttgct tgt 613

<210> 1969

<211> 741

<212> DNA

<213> Homo sapiens

<400> 1969

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 cctcagagat ggctctgagt aaatcaatgc atgcaagaaa tagatacaag gacaaacctc 180
 ctgactttgc atatctggca tccaaatata canattttta gcagcatgtt cagataaatc 240
 tggatggaag agtgagcctt aatttttaaag accccgaagc agtcagagct ctgacgtgta 300
 ctctcctaag ggaagatttt ggactttcta ttgatattcc attggagaga ctaattccca 360
 cagttccctt gagactcaac tatattcact gggtagaaga tctgatcggt caccaggatt 420
 ctgacaaaag tncctctccga agaggaattg acataggcac gggggcatct tgcattctacc 480
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 tgtgtttcaa ctatgcaaaa gaaaaatgtg gaacagaata acttatctga tctccataaa 600
 aagtgggtgga angttgccac agaaagacac tccttgaatg ggatgctcct taaagaaaga 660
 aatctgaaga ataatcctat gaactttttg cattgttgcc aaaccctcc cttttttttt 720
 tggccaaatt ccaatttggg a 741

<210> 1970

<211> 727

<212> DNA

<213> Homo sapiens

<400> 1970

aacaagaggg gtcnagtac acaacnagct gactcccgtn agaggaagac actgtggagg 60
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 aagataatgt ngcagggtgtt actttgccag tatttgaaca ttaccatgaa aggccaaagc 480
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 gggattggaa cgttactcct tggcttatta tcatccacca gaaactggga atgaagaaga 660
 agaagccgaa gaaaggggtt cctattaggg tttaaaaaga aaaattnccn ggaagaaaga 720
 aannnag 727

<210> 1971

<211> 609

<212> DNA

<213> Homo sapiens

<400> 1971

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 cttggggctt ggagcaacgc ccgcacgtgg cagggaagcc aagagccggt gctgcaaata 180
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gtgagaaaga aaatctcccc aacccccgccg aaagcgacag cctccanctc cagtgaagac 480
 agtgacnaag attgcggcgg tgcccgggaag cactgtttcg gcttcgacat cctacaggaa 540
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 anaaaccca 609

<210> 1972

<211> 739

<212> DNA

<213> Homo sapiens

<400> 1972

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 atgttgtgca agaggctactg tccatcaaac atcttccacc acagcttaga gcttttcagg 180
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 gtgggaaagg taagaaagct cggaccaagg cagcccatgg ctttgactgg ggaagaaaan 540
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 gtgggaacca ctccaataaa tttggaaaga aanaaatitg ttcagtttgg gttactgggg 660
 ctgttttggt taacccggcc cttccttggg aanaaatccc caccatttt aaattcacc 720
 cagaaaanaa aaccggccc 739

<210> 1973

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1973

ataaggaatg cacatgagat ggcacacata tttatgctgt ctgaaggica cgatcatgtt 60
accatatcaa gctgaaaatg tcaccactat ctggagattt cgacgtgttt tcctctctga 120
atctgttatg aacacgttgg ttggctggat tcagtaataa atatgtaagg cctttctttt 180
t 181

<210> 1974

<211> 747

<212> DNA

<213> Homo sapiens

<400> 1974

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ggtgccatcc agcgcgctca gcgaggtcag cctgcgcctc ctctgccacg atgacataga 180
cactgtgaag cacctgtgtg gcgactgggt ccccatcgag taccagact catggtatcg 240
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gaaaganttc aggaagcacg gcattaggtt ccctcttact tgaaaagttt aaaggatcac 480
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caacacagca ataaacttct attnaaaaac agaaaacttc aagccaagca accactaatc 600
tccccttant tacttactcc attccaaagg ggttcctcca aaaaatnggc ttccacccta 660
atgttctccc ttacattcaa accggggggg gggcaacccc tccccttggg naacnaattt 720
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<210> 1975

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1975

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cgattaagga ggcctttcgg ctggcgcagc agccgcacca gaaccaggcg aagctggtgg 180
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caaacagcaa tgcantgggg atttanagtg tgcctgctca taaacaanct tttgggaagt 480
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ttattaanat tgaaagataa gattcccnaa tgtttaaaaa taccagggca gttctggcgc 600
tttcacgact tccagggatc ccccaaggga ttgaatnaat gcccanttg gttaaatgnc 660
attattgcct actttttgaa ttggaaaaat tgaattccca attcccanaa aattttaaaa 720
ccggggccat ttnt 734

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<210> 1976

<211> 743

<212> DNA

<213> Homo sapiens

<400> 1976

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agtagcgctt ctgccgccgc ggagcttccc gaacctcttc agccgcccgg agccgctccc 60
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gccgccgccc ttcgagggcg ccccaggccg cgccatggtg aaggtgacgt tcaactccgc 180
tctggcccag aaggaggcca agaaggacga gcccaagagc ggcgaggagg cgctcatcat 240
cccccccgac gccgtcgcgg tggactgcaa ggaccagat gatgtggtac cagttggcca 300

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aagaagagcc tgggtgttggg gcatgtgctt tggactagca tttatgcttg caggtgttat 360
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 gtgnaataa agtacatcaa agatgatgtc atcttaaatg agccctcttg cagatgcccc 480
 agctgctctc taccagacaa ttgaagaaaa tattaatac tttgagaaga agaagttgaa 540
 tttatcaagt gttgcctgtc ccanaanttt gcagaatagt tgatccctgg ccaacatttg 600
 ttccaatgaa cttttaacaa agaaaacttt acagccttan ttttaanant cttaacctt 660
 gggaataaag ttgcttattg ttgaatcccc tctttgaaac actttcccat tttggtttat 720
 tgccaccccc aanaaaaacc ctt 743

<210> 1977

<211> 727

<212> DNA

<213> Homo sapiens

<400> 1977

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 cgaggtctcc tcaaccttcc ccgaagccgc tcacagcctt gtgatctgga tgcccgcaaa 180
 actgggggtca agcggcgcca cgaggaagac ccccggcgtc tgcggccttc gttggacttt 240
 gacaagatga atcagaaacc atactcagga ggtctttgtc tccaagaaac agcccgggaa 300
 ggcagcagca tctctccacc atggttcatg gcctgtagcc cccacccct ctctgcttcc 360
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 gctgtgcggt ggggtcggca ggcgctgagc aagcggacac tgtgccagcg ggactttggg 480
 gacctggact tgaatttgat tgaggaaaac taaaactgag aggctacttc ctggggccac 540
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 naaccttggg gaatgggggg ttaattgga agggctcccg actccaaggg cancttggga 660
 aaaatcttnc ttccgcctcc aagcaaaagc tccgaaccaa ttgcccagaa aaaaacttgg 720
 gccnggg 727

<210> 1978

<211> 732

<212> DNA

<213> Homo sapiens

<400> 1978

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aatatgttgc tgctggagat caatgaagcc gagtggatgg gggctgaatg tgcgagtcca 60
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gttttaagca gaaccatgaa aacctctgtg acaactccct ccagctccaa gagtgccggg 180
agggtgggggg cggcgcatcc gcggcctcga gcttgcctacc tcagcccatc cccaccaccc 240
ctgacatcga gaacgctgag ctacccccca tcttgccctt cctgttcctt ggcaatgagc 300
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ccactcatct tcccctctac cactatgaga aaggcctgtt caactacaag cggctgccag 420
ccactgacag caacaagcag aacctgcggc agtactttga agaggctttt gagttcattg 480
gaggaagctc accagtgtgg gnaaggggct tctcatccac tgccaggctg ggggtgtccc 540
gctccgccac catcgtcatc gcttacttga atgaaagcac acttcgggat gaccatggac 600
tggtatgcttt ataaatttgt tcaaagggca aaancgaacc aatttaatct tcccccaaaa 660
cctttaactt ccattggggg gcaagtttgc taaaaanttn cgaaaggaaa gaaccttaaa 720
accaaacggg tt 732

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<210> 1979

<211> 765

<212> DNA

<213> Homo sapiens

<400> 1979

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ctccaggctg ccgagactat aaaggcgcca ggttttctca atgaagccgg gacgcactcc 60
ggagcgcact gcgtggtcgc accctacccg ggctgccttg gaagtcgtcc ccgccgcccc 120
tccgcaccgg catgaagctt atcgtgggca tcggaggcat gaccaacggc ggcaagacca 180

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cgctgaccaa cagcctgctc agagccctgc ccaactgctg cgtgatccat caggatgact 240
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 tggagtctct ggacatggag gccatgctgg acaccgtgca ggcctggctg agcagcccgc 360
 anaagtttgc ccgtgcccac ggggtcagcg tccagccaga ggcctcggga caccacatc 420
 ctccctcctgg aaggcttcct gctctacagc tacaagcccc tgggtggactt gtacagccgc 480
 cggtacttcc tgaccgtccc gtatgaagag tgcaagtgga gganaaatac ccgcaactac 540
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 aaagtatang caggaaaatg ggaagccaac ggggtgtgga aaattggtct acctggaacn 660
 gcattgaaat tccccgaaaa aagaactctt cccgttgaaa ttccttgga aaaaaatttc 720
 anaaactccc cttgcttgaa anccgcctcc ccaangaaaa ttcan 765

<210> 1980

<211> 556

<212> DNA

<213> Homo sapiens

<400> 1980

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 aaagcagact gcccacaaat cgaccggtgg taaagcacc aanaagcaac tggctacaaa 180
 agccgctcgc aanantgcgc cctctactgg aggggtgaaa aaacctcacc gttacaggcc 240
 tggtagctgtg ncgtccntg aaattagacg ttatcagaag tccactgaac ttctgattcg 300
 caaacttccc ttccagcgtc tggtagcgan aaattgctca agactttaaa acagatctgc 360
 gcttccagaa cgcaactatc ngtgctttgc aagaagcaaa tgaggcctat ctggttgac 420
 tttttgaaaa caccaacctg tgtgctatcc atgccaaaca tgtaacaatt atgccaaaag 480
 acatccanct tngcacgccg catacgtgga naacgttgct taanaatcca ctatnatggg 540
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<210> 1981

<211> 742

<212> DNA

<213> Homo sapiens

<400> 1981

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tactggatcc ggtctccgtt ttggaagacc cgcctcggca cagccaggct cagtccggcc 60
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aatgatgaac gcctgctgag cattgtgaat gtctgcaaag caggaaaaaa gaaaaagaac 180
tgttttttat gtgccacagt gacaactgaa cgccctgtgc aggttaaggt ggtcaaagtc 240
aagaaatccg atnagggaga tttctacaaa aggcagattg catgggccct tcgaggtctt 300
gctgtggtag atgcaaaga tgctatcaaa gaaaatcctg aatttgattt acactttgaa 360
aaaatatata aatgggttgc cagcagcact gctgaaaaga atgcatttat ttcatgcatt 420
tggaattga atcagcgata tctccgggaa gaaaattgat tttgtcaatg ttagctcaca 480
gcttttggaa agaattctgtt ccaagtggga gaaaatcaga gtgtgacagg gaggtgatga 540
aagaaagtag tagatgaata ccaagaagtt aaattgccaa gaagaagaaa caggatatcg 600
aaattaatga tggnaaggct gttgaatatt gcaatctccg aaatgccgn aagcctttgg 660
cagaaaaaat ttgtcccaaa aaancttgcc agggttgctt anaatggggg cttaacantc 720
ccagttccaa tccatngggc at 742
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<210> 1982

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1982

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gtgcatccc caggagcctc tgccctcagt agtgtcctct ggagccccc aagcctcacc 180
gcctctgtgc cactctgaag gactgcccgg gaccctgga actgcaattg tcctgtgagt 240
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tcctgagtga ccagagcctg gagactctac tggactgctt acctcaactc cctcagctga 300
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 ccttaagcct gtgtccacgg gttaaaaagg tggatctcag gtccctgcac catgcaactt 420
 tgcacttcag atccaacgaa ggaggaggaa ggcggtgtgct gtggtctctc agcaaacctg 480
 ctgggcgaca gcgggactca gatgccttct ggaatgtctg ccgcaggtgc ccatctccgg 540
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 aacactggcc ctcttgccc cacgttgtcc gggaaggcc tccagttgaa accttggggc 660
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 tgggggaaaa aaaaactcca gggcttaaaa tttnaagttg ccn 763

<210> 1983

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1983

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 cagcgaccag cccgcggcgg ccancgtgtg gaanangaag cgcattggatc gcatgatggt 420
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<210> 1984

<211> 778

<212> DNA

<213> Homo sapiens

<400> 1984

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 gaagaagcac cggagggaaa aagagcaccg ggaccccccg accagacggc cccagcagtg 180
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<210> 1985

<211> 787

<212> DNA

<213> Homo sapiens

<400> 1985

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 agagtataa ggaaattggt ggtactcttc taggatttga tgactttgtc aatatggtac 180
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 caaacaaaaa agttgttccc aaacaaaaan tgaatgaaac tttttgaatt ttgnaaacaa 720
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<210> 1986

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1986

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<210> 1987

<211> 766

<212> DNA

<213> Homo sapiens

<400> 1987

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aaaactgtta acctcttacg gatttattca gtgttcagaa cgtcaagcta gacttttctt   180
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gaaaagaagt gatgtttgta aaaagaaaat attcctttcc actattagtt gaaatttaag   600
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tccaaggga accagaaaaa ttggttaaaa naaaaatttt gccaaaccag aatnttccag   720
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<210> 1988

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1988

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<210> 1989

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1989

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 ctttaagcctg tgtccacggg ttaaaaaggt ggatctcagg tccctgcacc atgcaacttt 420
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<210> 1990

<211> 463

<212> DNA

<213> Homo sapiens

<400> 1990

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 gtgcgaccag gtgtctgcct gtatcccant gticangctg gctanacggc ggaagaagat 420
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<210> 1991

<211> 281

<212> DNA

<213> Homo sapiens

<400> 1991

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 agaaggaaaa aacggaacga gacaagaatc agagcagtag caacagaaag gctgtttgtcc 180
 ctggaccggc agagcatccc ctgcagtaca actacacttt ttggtntctcc aggagaaccc 240
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<210> 1992

<211> 725

<212> DNA

<213> Homo sapiens

<400> 1992

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 atgcaagctt gccaccccc agcccaaaga aaatgccact tcttgccant aagcatcgag 600
 cccatnttgg taanccctcc attgttccgc cttgaaaagg gcccncacc aaggggcccc 660
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 aaaag 725

<210> 1993

<211> 499

<212> DNA

<213> Homo sapiens

<400> 1993

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 ctttgtcaga acaagttcac cagccgttgc ttgaagaaca gtgtagcatt gacgagcctt 420
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<210> 1994

<211> 762

<212> DNA

<213> Homo sapiens

<400> 1994

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aactccatct tagtggcagg aatataatga aactaccac gcaagaacat ggttgaatca 180
catttgcttg acttagggca aagtacgaaa gagagacaaa agggttctct tggaacaag 240
aagagtgact ccagatgtgg cctgaataat tgccatgtta agttaatgca aaagatcaga 300
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ccggcacccc cggcaagccc actatcactt ccgacttcca acgtggcatc cgtgagatct 480
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cccattttcc ccgaacagg cgaaatttcc ccccttgaag aaaaacnaat nccttnnaac 720
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<210> 1995

<211> 758

<212> DNA

<213> Homo sapiens

<400> 1995

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gatattggcc ttttgggatt gaaagggag cagagaaagt taaaggagcc cttgccaaat 180
ggaaagaaaa aaagcaccaa attagagagt ctgagtgacc tggagagagc ttaactgaa 240

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agcaaggaga ctgcttcagc tatggcaact cttggggaag ctgcctaag ggaaatggaa 300
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tgcaggggatg ctttccacac cagtttgttg gcggtaccca gtatttcaca gggcctgcga 480
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atgattgaaa agaaaccgtg gaactggcag cacaagaacc caagccaaac tgcttttcgt 660
tcaggggaaa tcttaaattt tgttgncaaa gaatccaant tggggctcca nggacttggt 720
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<210> 1996

<211> 766

<212> DNA

<213> Homo sapiens

<400> 1996

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gggtgtacgc acagatgcac ctctgatgca gtttaaactc atccttttaa agtacagcac 180
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gtaaacgtag agaagaattg gttctcaggt gtctgtatag atggcctaata agttctctat 360
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agtttttttt gttttaaggc aaacttaaaa ttttaatggg aaacatttca tatgaaagcc 540
aagtctcact gagatcacc tactgcttta ataattcaga aaaattttca catggcaaaa 600
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cacatctctg gccttaaaact ggattccatg aatggtttaa tggtttttcc ctggtttngg 720
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<210> 1997

<211> 784

<212> DNA

<213> Homo sapiens

<400> 1997

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agcgtgtgtc ataagatgat tgtggacagg cagtatatgg gcgtgtctaa gcggaagtgc  240
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gctgacgtgc agtccattgc tgtagctgac caagaagaca gtttcgtggt gggcacagcc  420
gagggaacag tcttccattt tcagctggtc cctgtgacat ctaacagcag tgagaagcag  480
tggtgtcgga caaaaccgtt ccagcatcac actcatgacg tgcgccactg tggcccacag  540
cccaacagcg ctgatatctg gaggcactga caccactta gtctttcgtc ctctcatgga  600
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tccccaccc gaatgttctc catcctcctt ggtttcctaa aaaaaagaaa ggccaaggct  720
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784

<210> 1998

<211> 500

<212> DNA

<213> Homo sapiens

<400> 1998

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cggaagangg acaaagtgt cttctatggc cggaagatta tgcggaaggt gtcacaatcc 420
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actnaanatg ctcaacnttg 500

<210> 1999

<211> 754

<212> DNA

<213> Homo sapiens

<400> 1999

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gaaaaacttg atgctttcat tgaagctctt catcaggaga aataaattaa aatcgtactc 180
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gtattattaa aaatccacca gtagccctg gcttaaaatc atttggtatg ttgttctggt 660
agttattcta ttccccaaga aaacttattt ggaaccatgg aataattcca gtttttaata 720
tttccccac cattggaaaa agaaaaaaa ttng 754

<210> 2000

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2000

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agatccccac gcggcacctg gccatgctct cagctctccc gccgcgggat ggtgccttga    60
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gaaaactgaa gattcagcag atccagtgtc tcctgtctct cttctgcccc ggaacacgct   180
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<210> 2001

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2001

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cctcgacacc atggtggaca cttttcttca gaagctggtc gccgccggca gctaccagag   180

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<210> 2002

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2002

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<210> 2003

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2003

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<210> 2004

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2004

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<210> 2005

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2005

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<210> 2006

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2006

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<210> 2007

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2007

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gccaaggga attcccagtg ttacctgttg gcagcccttc ttcagacacc ggcttacttc   600
tgcttccacg aaggctgctg gaccagaaa naaagtttta attggccctc cttggaattn   660
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<210> 2008

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2008

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cgctcaagc cagcctcaga cagaaaactg aagattcagc agatccagtg ctctctgctc   180
ctcttctgcc caggaacacg ctigccttcc ccaaggcttc cagaagctct gaggcaggag   240

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gcaccaagtt ctacctcatg tttggaggat cttgctagct atggccctcg tactcggctc 300
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 tcctggggggc tgctgtttta ttattcctga atgcctcctg ggggtgggggg tatttccttt 660
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<210> 2009

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2009

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 acaagcccgc tgtcagggan tagtttgtgc catgaaggan gcatttggct ttattgaaag 540
 aagtgatgtt gtaaaagana tattctttca ctatagtga ttttaangtg acttanaaac 600
 cttacagcct ggcgatgatg tggaattcnc aatcaaggac agaaatggta aagaaattgc 660
 aacagatgtc anactattgc ctccaggaac agtcattttt gaaaaatatc acattgaaca 720
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<210> 2010

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2010

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tggcacacac aggatgggtgt tttaaagagt gggctgcacc cccacacgc catttacatc  180
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aattttcagg acgtcagctg tcagatacga aaggtagata tcaggtaaga atctggactt  360
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ttaaagtcaa ttaagaaata gaacttgggt caaaattctg ttacaaagct tcataatttg  480
tcccgaagca tatggtggag cattctgaga aatttgcttt ttgtgtgttt gacattccta  540
atttgggant ccttcagctg aattactatt cttttagaan ttgagacagc aggtaagcaa  600
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<210> 2011

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2011

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<210> 2012

<211> 523

<212> DNA

<213> Homo sapiens

<400> 2012

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 gctacatcct gcctgtgtat ggcatctgcc gcgaacctgt cggcctggtc atggagtaca 360
 tggagacggg ctccctggaa aagctgctgg ctccggagcc attgccatgg gatctccggt 420
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523

<210> 2013

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2013

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tggcttctgc tccaactgga tctggaaaaa cattagcttt tagcattcct attttaatgc	180
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ttgccagcca gattcacaga gagttaataa aaatttctga gggaacagga ttcagaatac	300
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<210> 2014

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2014

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caacaactgg agggaaatga tgccccctgct gtccctgata ttctctgccc tcttcacctt	180
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tccagaaaaa gaggaagccc aagagaagac tgggaaaact gagccaagct tcaccaaaga	300
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ggagcgtgac tacactgggt atgtactggc tctgaatggc cacaagaaat acttctgcct	660
cttcaagccc caaaagacag tcgaagaaga agaaccatag ggtcctgcag tgatgttgac	720
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<210> 2015

<211> 424

<212> DNA

<213> Homo sapiens

<400> 2015

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cctcctcagc cagccatgct ggagcatctg agctcgctgc ccacgcagat ggattacaag	180
ggccagaagc tagctgaaca gatgtttcag ggaattattc tttttctgc aatagttgga	240
tttatctacg ggtacgtggc tgaacanttc ggggtggactg tctatatagt tatggccgga	300
tttgcttttt catgtttgct gacacttctt ccatggccca tctatcgccg gcacctctc	360

aagtgggttac ccgttcnaca atcnagcaca gacnacaaga aaccagggga aagaaaaatt 420
naga 424

<210> 2016

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2016

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agcatggcgg gcctaaagcg gcgggcaagc caggtgtggc cagaagagca tggtagcag 180
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cagccctcta aaacagtgcc tccccactat cctgtggtgt gttgccccac ttcgggtcct 600
canatgtgta ncaagcggnc agcccgaagg aaaaccacac ttggggaacc ancgaaaacc 660
cngaagccc 669

<210> 2017

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2017

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gtcatcagcc actacgccgg gcaggatgcc acggatccct ttgtggcctt ccacatcaac 240
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cacatcttgc tgctggatgg tgcagcctgg ctcacccttt gggctctttg gacgtccttt 480
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ccagcaccat gccaanccca actgcttccg caaaagaccc anaaattcaa catngcatcc 720
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<210> 2018

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2018

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tcaatgatgg cagccatgag tggacagtaa agcaccgcta cagcgacttc catgacctgc 180
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gagaacagct cctgggggcc ggcgangtct ttgccattgg acccctgcag ctgtatgccg 480
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gaccttttgg gaccagcaac attcagganc actcctgccg ttcgacctat caatattcaa 660
gtccctgcat caggtggana taantcctgt gatgcttaac acatcnaaag ggctggtcnc 720
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<210> 2019

<211> 580

<212> DNA

<213> Homo sapiens

<400> 2019

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agaacctggc acctccatgc ctctgagaa gaaggcagct gttgaagatt cagggaccac 180
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<210> 2020

<211> 673

<212> DNA

<213> Homo sapiens

<400> 2020

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gcaaaaggca gcgttgacagg agctgacgcg ggcgacagtg gagtccttca actacgctgt 180
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<210> 2021

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2021

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aagtcactta atggctcttc tgacgcttgg aattaattct gccatggtcc tanattgtgg 480
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<210> 2022

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2022

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ttcattccct ggtagacaaa tccaacatca accgacagtt ggaggtatac acaagcggag   420
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acttcagcct ggtcgggctt ctccgcctgc actccctgtt aggagattac taccaggcca   540
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<210> 2023

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2023

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cgtctccggc gcggtacact gccccgtttt ccctgtgagt tgacctgctc cgggccgcgg   180
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gggctcaggg aanactacgt actgcctggg catgantgag ttcctgcgcg cgctgggccg   300
gcgcgtggcg gtggtgaacc tggaccggc caacganggg ctgccgtacg agtgtgccgt   360

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<210> 2024

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2024

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<210> 2025

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2025

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gacggaaaaac ggggtccaac ccccgaaagc ggctgccttt ccgccaggct ttagcatttc  180
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aacagtacga ctctgtgaac agctctccac agttatncca aactcacatg tttattacag  540
aagaagactg gctctgaaaa aaattattcc acagtgcacg gcaagaagat ttcacagacc  600
tgattgttat taatgaagat cgtaaaaccc aaatggactt attttgantc ncttgcccaa  660
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<210> 2026

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2026

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aaaaaaaaac ggcctccgc ggaggtagcc gttccctgac ctagccatgg cacagaacac   60
tgaaaaccac gaccctgtcg gatccatctt aatccagatc catgaagacc tttatcagtt  120
aaaggagaaa ttaacaaaat tctcacctga ggaaaaagga gagactctag acattcagag  180
tcttgaaaca gcaatcaaaa ggactgaagt ggggttaaga ggattttaag tatgatagaa  240
cgagggtgta ttccaccaac agcaaggatt acctttcaga atccacccat tacaccaga  300
gcagctcctc tgcatagttt tgatgaagca cgtnagattc caactgtagc cactttcact  360

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atacctcggg aaccacctcc atctccagca gaagtgaagt tctttcccaa gaaacaaaga 420
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 ccacctggga cagccccaga tatgttccta agaagaaacc agacttaaga ataaaagaac 540
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 cccccagact tcttagcatt ccagggaaca ttttanccta acttggggaa gtattttttc 720
 tctcttggga acacgttcaa naaatttctc aggaactatg ctattccaga aatccaaatt 780
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<210> 2027

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2027

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 tgaaagaaga aataaatatt gcttgtattg aagctaaaca agcaggagaa acaattgcag 180
 cacttacaga cataaccaac ttgaaccatc tggaatctga tgggcagatc acaattttta 240
 cagacaaaac aggagtata aaggctgcaa gattacttct ttcttcagtg acaaaagtgt 300
 tgttgctggc agaccgagta gtcattaaac agataacaac atcaagaaat aaggttctcg 360
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 aatttgga aa tgaaatgggtg gagtttgcac atctgagtgg agatagacaa aatgatttga 480
 aagatgaaaa gaaaaaggca aaaatggcag cagctagggc agttcttgaa aagtgtacaa 540
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 aaaacaaana aggagtattt gaccgtatga aagtggcatt ggataangtc cttgaaattg 660
 tgactgactg ttaaccgaat ggaganactg acatttcac tatcagtatt ttactggga 720
 attaanggaa ttcanatga atattgaagc tcttcngga 760

<210> 2028

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2028

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tccccgggt ggggccccgg gccgaggcga tggcgccctg ggcgctcctc agccctgggg 60
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acgataccga gctgcggcaa tgggaggagc agggggagct gtcctgccc ctcaccttcc 180
tgctcctggt gctgggctcc ctgctgctct acctcgctgt gtcactcatg gaccctggct 240
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ncancccaac tgtttaaggt tgcttgaag cc 692
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<210> 2029

<211> 914

<212> DNA

<213> Homo sapiens

<400> 2029

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gaagaactac tataagagga tagagccgc agatgctcat gtgctgcaga aaaacctcaa 120
agttccttct ggtcagaatg cagatgtgca aaagacagac aactgaacaa attacaaatg 180
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aactttctta cacttgcttg tcgccaaata aaagagaggc ccattgattc ctccccacc 240
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ttttctctta tttttgtgag gtggtttgaa ggaaggacaa ggtagatctg tttagtttg 420
cagttgaagt tagatgggcc taaacattta attgtcaaata aatttcaaata ttaatgtcct 480
gctttcacat tgaagggcag ancctacaaa acattgtata tttcaaaaga caaaaagaag 540
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gtttttaaac actttggaat actaatccct aaacattgnc ttcactccan ctttantcct 660
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gttgaatttt aagttattat atcttcnctc ctgccggtgg gttngggcat ttinggttaat 780
gttatacttt gggctcaagt ttttgaattt aactggcntt tttggctaata gaattgggct 840
ggttttttan caaggtttgt ttttncctgc tgtttgaatg gttnccaatt gggcnttaac 900
tttttaaaaa attt 914

<210> 2030

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2030

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gaaatacatt gggganaaat ttcaactgct ggtggaccgg cccgatggca cctactgttt 120
ccgtctgcac aacgaccggg tgtactatgt gactgagaag attatgaagc tggccgccaa 180
tatttcggg gacaagctgg tgcgctggg gacctgcttt ggaaaattca ctgaaaccca 240
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tcatcaagca gacattgggg aatatgtgcg gcatgaagag acgttgactt aaaacgaagc 420
cattccaagg acagacggct gtatggaaag gccgagcttt gtttcctgtg tttgtgtgga 480
ctccaccatc atgttgaatt ttgtcaacac tctggcctct tcagggactt cttatttact 540

gtactctcta tcactgacaa atgcangctg gattcttatt atatacagag atggctcaaa 600
aatggggttt cagatctttg tgacgaaata aaatactgtt tcatatttga atcagaaggc 660
ttcttgttct gaaaaataa gttcaaaatc attggaacca ngaaacaana ataacttatt 720
gttatctgtg ataacactgt cttctaaaac accaaggatt tcttttttat taatatgccca 780
catanacntt gccntaacc 799

<210> 2031

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2031

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agctccgcgg agacgacctc cgacgaccgc caacaatgaa gggaaaagag cgctcgccag 120
tgaaggccaa acgctcccgt ggtggtgagg actcgacttc ccgcggtgag cggagcaaga 180
agttaggggg ctctggtggc agcaatggga gcagcagcgg aaagaccgat agcggcggtg 240
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cctctggggc cgcctcctca gctcccggcg gcggggacgg cgcggaatac aagactctga 480
agataagcga nttggggtcc cancttaatg acgaagcggg ggangacgcc tgtttcatga 540
gttcaaacgc ttcggtgatg taagtgtgaa aatcagtcac ctgtcgggtt ctggcacggg 600
gatgaacggg tacctttgtg aacttccggc ggccaaaaga cgcgcgggcn gncaancatg 660
ccanaaggcc gcctggtgct ctatgaaccg gcctctgaaa ataaaaactg tttttgtnaa 720
cc 722

<210> 2032

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2032

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ttatgctaac atgaagaaaa gagaagggaac tcagctttct tcccaacagt ctgtgatgtc 60
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tttggaagaa aaaacagaat cagcaacttt tcgggtgtgt ggtgaaaatg tcacgtgtgt 180
ggaatatgct atctcctggc tacaagacct gattgaaaaa gaacagtgtc cttacaccag 240
tgaagatgag tgcacaaag actttgatga aaaggagtat caggagttag atgagctgca 300
gaagaagtta aatattaaca ttccctgga ccataagaga ctttgatta aggttttggg 360
aattagcaga gatgtgatgc aggctagaga tgaaattgag gcgatgatca agagagttcg 420
attggccaaa gaacaggaat cccgggcaga ttgtatcagt gagtttatag aatggcagta 480
taatgacaat aacacttctc attgttttaa caaatgacc aatctgaaat tagaggatgc 540
caggagagaa aagaaaaaaa cagttgatgt caaaattaat catcggcact acacagtga 600
cttgaacaca tacactgcca cagacacaaa nggccacagt ttatctgttc agcgccctnc 660
gaaatcccaa gttgacatcc ctgccactg ggagtgatat gaancaccaa anttctgtgt 720
tgtggaactg ctgcctantg atnctgaatt acacacggtg gccagccant tt 772

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<210> 2033

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2033

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aaaaaaaaa acatcaactc tgacctgcca atcatcatat cgattgagaa ccactgttca 60
ttgcctcagc aacgaaaaat ggcagaaatt ttcaagaccg tgtttgagaa aaagctgggtg 120
actaaattct tatttgagac tgatttctca gatgatccaa tgcttccttc acctgaccaa 180
ctcagaaaga aagttcttct taaaaacaag aagctaaaag cccatcagac gccagtggat 240
atcttaaagc aaaaggctca tcagttagca tctatgcaag tgcaggctta taatggtggg 300
gatgccaacc cccgacctgc caataatgag gaagaggaag atgaggagga cgaatatgat 360

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tatgactatg aatccctttc tgatgacaac attctggaag acagacctga aaataaatca 420
 tgtaatgaca agcttcagtt tgaatataat gaagaaatcc ccnagaggat aaagaaagca 480
 gataactctg cttgcaacaa aggaaagggtt tatgatatgg aactgggaga agaattttat 540
 cttgatcaga ataaaaagga aagcagacag attgcaccag aagctttctg accttggtat 600
 ctattgtcaa gcagtaaaat ttccaggact gtcaactcta aatgcatctg gctctagccg 660
 aaggaaaaga aaggaaaagc cggaantcct ttttggcaac catctgggcn gaatganccc 720
 ngggganaca gcataccttta acaaaac 747

<210> 2034

<211> 550

<212> DNA

<213> Homo sapiens

<400> 2034

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 cagccggccg agatggcggc cgagctgggc atgaggggcc ccaagaaggg cagcgtgctg 180
 aagcggcggc tggatgaagc ggtggtgaat ttctctttct actttcggac agacgaggcc 240
 gagccccgtc gagccctgct gctggagcgc tgcagagtcg tccgggaaga gcccggcacc 300
 ttctccatca gcttcattga ggaccctgag aggaagtatc actttgagtg cagcagcgag 360
 gagcagtgtc aggagtggat ggaggctctg cgtcgggcca gctacgantt catgcggaga 420
 agcctcatct tctacaggaa cgaaatccgg aangtgacgg gcaaggaccc cctggaacag 480
 ttcggcatat ccgaagaagc cangttccan ctgaatggct tgcangcgtg agcgcagggc 540
 acggtggtca 550

<210> 2035

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2035

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gtgtgcaatg atggctgggg gaatcgtcat gactgccaat ctcaacatca attataaaag 60
acctatccct ctttgttctg ttgttatgat aaatagccaa cttgataaag ttgaaggaag 120
gaaatTTTTT gtttcctgta atgttcagag tgttgatgag aagaccctat actcagaggc 180
gacaagctta ttataaagc tgaatcctgc taaaagtctg acataaagag ctgctgggtga 240
actccatctc attctcgccc ctccagaaga agcagttgtc ccccaaatac tctgctccct 300
cactgctgaa tccctgtagg gagaagcctg ccaacagtga ctttccgaaa cagccttctg 360
aatacaaaga ggattcagtt tccatcttct caacttgta acacagaaac acttcctgcg 420
agcatatcga caactctcgg gccaggcgct gtggctcaca cctgtaatcc cagcacttta 480
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gatgaaaact ccgtctctac taaaatacaa aaaattatcc aggcatgggtg gcgtacgcct 600
gtagtcccag ctactcagga ngctgaagca gganaattgc ttgaaccag gaaggaanag 660
gtgcagtgaa gccaagaaca tgccacatca ctccaacctg ggcaacagaa caagaaacca 720
tctcnaacaa acnaac 736
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<210> 2036

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2036

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ggagcgtcgt ggaaagcatt ggacacattt ccaccatgct aatggcattt taaatatatt 60
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gtgactctgc cgattatcag gctttcaaga tgaatctgga aaaactcagc aagcctgaac 180
tcctgacact atttagtatt cttgaaggag agcttgaagc aagggacctt gttatagaag 240
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aaaagcagcc agtctgcaca aatccactct ctattcttaa ggttgtgatg aagcagtgca 420
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agaacatgca ggagcgcag ctgtcccagc tggctgctgc tgagagcagg caccgaaagg 480
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 atgtccctac atgctanaga aggaaagana gaagctgact caacagttgg aatttgaaaa 600
 atcccaagtg aaaaagtttg aaaaagaaca gaanaanctc tctattccgc tggaaaaaga 660
 acgctcccgc cacaagcagc tctcatccat gctantgctt gaattgcaan aaagccncaa 720
 c 721

<210> 2037

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2037

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 gattttccat tgctgtcaca agaacagaaa gcacacatta ggagaaaacc ttacgaatgt 180
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 caagctcttc aatcgaattg cataccttgc acgacacgag aaagtgcata ctggagagag 420
 tccttataaa tgtaatgagt gtggcaagggt cticagtcna attacatacc ttgtacgaca 480
 tcagaaaaat tcatactaga naaaaaacct cataaatgta acaaatgtgg caaggtttat 540
 agtancagtt catacctagc acaacattgg anaattcata caggananaa actttacaaa 600
 tgtaataaaa tgtggcaaaa aatttagtgg gcattcaagc ctcaccacc atctgttaat 660
 ccacactgga aaaaaacctt acaaatgtta agaatgtgac aaagctttta ggcacaantt 720
 ctccctgaca gttcntcnaa aaaatcttaa tgggaaaaaa accttataa tntcctgaaa 780
 t 781

<210> 2038

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2038

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ttgcccagca agtgtgtggc tatcgactgt gagatgggtgg gcacggggacc ccgagggcg 60
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tgaaaaaggg gcggggctcc ctggctgggc ttccngtgn gccngtaaga aattgggggg 720
caagaaaaac aacgggcact ccttccttgg gchanggttg ggcaggattc anttaaacc 780

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<210> 2039

<211> 629

<212> DNA

<213> Homo sapiens

<400> 2039

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agcggcgggc aggccgggca tggcgtccat ggcggcggcg atcgcggtt cgcgctcggc 60
ggatcatgagc gggaaccggc ctctggacga ccgggagcga aagcgcttca ctacttctc 120
gtcgtgagc cccatggcca ggaagatcat gcaggacaag gagaagatcc gcgagaagta 180
cgggcccag tgggcgcggc tgccgcccgc gcagcaggac gagatcatcg accggtgcct 240

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ggtggggccg cgcgccccgg cgccccgaga ccccggggac tcggaggagc tcacgcgctt 300
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 ttggcaagat gagcactctg cccctttctc ctgggaaaca aagagtcaga tggagttcag 420
 tatctccgcc ctatccatcc aggagccgag caacggcacc gccgccagcg agcccagacc 480
 actgtccaaa gcttcccagg gctcccaggc cctcaagtcc tcccaaggca gcaggtcctc 540
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 tgctgaacgg tcccnaaggg gaagggcct 629

<210> 2040

<211> 524

<212> DNA

<213> Homo sapiens

<400> 2040

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 gccccggggt gcaccccgca aggctccgc tgggtgcctt ggancatggg aggctgctga 120
 ncgtgagtgg cgggtgtctg caggantgc gtggcaggga nggcgtccat ggctgcanc 180
 aacaagggca acaagcccag agtccggagt atccgctttg cggcaggcca cgatgcanaa 240
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 cagganagt acagcagctt tctgggtcaag gttggcttcc tgaanacct gcacaggtat 360
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 gtccccancc tgcacctcaa gtcctcagc gtgggtgccc tccctgaaag ttatantgtc 480
 aagtgtgagt actcngcgca caaanaaggc gtcctcaaag aaga 524

<210> 2041

<211> 855

<212> DNA

<213> Homo sapiens

<400> 2041

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 cgcacctgga tgacagcagg ggccgccggg tcctctcgac gccagagaga aatctcatca 180
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 gacaaaaact aaactgaaat ttaaaatgtt cttcggggga gaaggagct tgacttacac 300
 tttgggaatc agaggcaatg agcccgtata tacttcaact caagaagact gcattaattc 360
 ttgctgttca acaaaaaaca tatcagggga caaagcatgt aacttgatga tcttcgacac 420
 tcgaaaaaca gctagacaac ccaactgcta cctatcttgc tgtcccaacg angaagcctg 480
 tccattgaaa ccagcaaaag gacttatgag ttacaggata attacagatt ttccatcttt 540
 gaccanaaat ttgccaagcc aagaattacc ccangaagat ctctcttaca tggccaattt 600
 tcacaagcat cactccccta ncccatcatc acacagatta ttccaagccc accgatatct 660
 catgganana cacactttct canaaatttg gattctcaag atccttggan aaactattta 720
 agatngatga aacaattgcc actccttgct tataaggaaa aaggccatcc tccaaattcc 780
 caaattttcc tctgatcaaa aaattactcc tctgctgcct nnaaaaatnt taatnccctc 840
 ccactacgg tggcn 855

<210> 2042

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2042

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 ctcatagga ggacgaggag gtcatgaaca aggaggcggg agaggtggac gtggtggcta 180
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ccaaacatct tcttcatata caggaagtgg ataccagggt ggtggctacc agcaggacaa 420
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tcgtggaagc cgaagtggtc gtgcangcca nggangagct ggggangaag aaggaccaga 540
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<210> 2043

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2043

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TTTTTccat tttatgggga atttaaaaac cattcttgta tcagaagggtg aattaggcgc 180
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caagggaag ggactcccaa gcccctttc aaggtaaact tatcaaagga gcccctgaa 780
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<210> 2044

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2044

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cttgtatata aaaatgctaa atgtacgttg aaacgataca ccaatcagac ttttgataaa 60
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gatgcagatg gtatttggtc tccaggtgag aaagtagaaa acaaacaagt gcttgtaaata 180
aagtccatgc ccacagtgc tcagattcct ttggaaggaa gtaatgtacc acagcaacca 240
cagtacaaag atgtacccat aacctacaaa ggagcaacag actcatatat tgaaaaagtg 300
atgatatactt caaatgctga agatgctttt ctgatcaaaa tgctgctgag acagacaagg 360
cgtccagaaa ttggagacaa attcagcagt cgtcatgggc aaaaagggtg ttgtggcttg 420
atcgtccccc aggaagacat gccattttgt gattctggca tctgtccgga catcatcatg 480
aaccacacag gcttcccatc acgaatgacg gtggggaagc tcattgagct gctggctggc 540
aaggccggtg tgctggacgg cagattccac tacggcactg cgtttgagg cagtaaagtg 600
aangatgtgt gtgnggacct cgtttgccat ggggtataact acttggggaa agactatgtt 660
acatccggca tcacangtgg agcccttata agcatacatc tattttgggc cccgtgtact 720
atcagaagct gnaacacatg gngctagat 749

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<210> 2045

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2045

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gtttttactg ttgcccga cagcgcacgg ctcaagttgt cgtctgggat ttgagagaag 60
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cgttttccac cgatggaatc cttacctcag taaaccaccg aagccctctt caagcagtag 180
aacctatctc aacgtccgtc cacaaaaagc agagctttgt gctttcacc ttttctactc 240
aagaagaaat gtcaggtttg tccttcaca tcgcttcctt ggatgagagt ggggttctca 300
atgtatgggt ggttgttgaa ttaccaaagg cagacatcgc aggttcaata agtgatttag 360

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gtctgatgcc tggagggagg gtcaagctgg tacatagtgc tctgatccag ttgggtgaca 420
 gtctttctca taaaggtaat gaattttggg gcactacaca aacactgaat gttaaatttc 480
 tgccttcaga tcctaatacac tttattattg gcacagacat gggcttcata agccatggca 540
 caagacaaga tttgagagtg gctcccanac tattcaaacc tcagcaacat ggtataagac 600
 cagtgaaggt taatgtcatt gatttttcac catttggaga accaatattt ttgggccggc 660
 tgttcggacg gaagcatcaa ggctgcaaca actgagctcc gcgtttccgc tcctgcagtg 720
 ggacaacagc acggacagcc atgcggtcac cggccctgca attggncccc caaaccaagg 780
 cctggcccgt tgttccctg gtgcaanggc caacacattc caaacaatcc tanaatcct 839

<210> 2046

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2046

ttttttgtag agatgagctc tcactatgtc acccagggtc gtctcaaact cctgaaccct 60
 agtaattctc ctatctcagc ctcccaaagt gctaggggta cagacatgag ccactgtgcc 120
 tgtctagact tgtactttca actgtccatt tctccctgtc tgtcccatgg gcactcatga 180
 aaaaacagaa tgctcccaac tttattcatt ttccaagcct gtagctcttg gtataactcac 240
 tgttgcaagt cagaagcttg atttcatcat tgatgttttt ctacagtttc acatctcact 300
 catcaccaag tcatgttggt gtttaattct gattaaccct tgaatttacc gtcttctcat 360
 cctctgtaca aaagcctcaa gtgaggggtca aattcaacat tatcctgac tagacagccc 420
 ccattctcaa tccacccttt tccaagttga ttgcccaagg acttctaaca ataaactctc 480
 ttttgacca cagacttctt tgaaaatata catgctgttg accctctctg tagaaaaccg 540
 cacacataaa acttaccac agatttcatt ggttcttggg ttctcccgaa gcctatccat 600
 ggtttataga ttaagaattg atgaggtagc tgggcacagt ggctcacacc tacgatcaca 660
 gcacttcggg aaggctgaag caagcanatc acttgaggtc aaggagtttg agacaagcct 720
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<210> 2047

<211> 771

<212> DNA

<213> Homo sapiens

<400> 2047

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accagctgg tcccagaaag gtggttccca tttacctgcc cgaaggtaat tcacccttac 120
tgatactgag tactgttttc taaaagaaca ttaaaaattg gataggttaa aaacagggtga 180
atacatTTTT ttagttgcat ttttttggtt acccgtgaga gtgaacatgt tgccatgtgt 240
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agctctgcaa tggttctcag gttaaaggcc aaagtcctgt tcaaggcctc cagggtcctc 420
accacttggg cccttgctct ttctgttcta gccaaacttg cttctcctg cccctccgcc 480
gcaccatggc aatttccct gctctgtgtg gtcaactacc tgaatctgtt caaagctttg 540
ctcaaatgtc tccttcctga tgagacctcc ccagcccctg agctccccat gccccactcc 600
tgatgcctt acttaaacct tcttttctt ttttgccaag tagtacttat caccgtctaa 660
aatacttcat aatttacttg ttiantgggt gcccctctcc aatagaatgg tagctccttg 720
ggggcaggga cctttggcct ttgncctgtt caactgctgg ggtcccaagg t 771
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<210> 2048

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2048

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aagatggccg ccccggtctg ggctgttttc agatgcttca agtgttgtga acagagactt 60
gtttggatta tgcatttctc agctagacta aataaatgct agcaatggat acgtgcaaac 120
atgttgggca gctgcagctt gctcaagacc attccagcct caaccctcag aaatggcact 180
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gtgtggactg caacacgacc gagtccattt gggcttgcct tagctgctcc catgttgcct 240
 gtggaagata tattgaagag catgcactca agcactttca agaaagcagt catcctgttg 300
 cattggaggt gaatgagatg tacgtttttt gttacctttg tgatgattat gttctgaatg 360
 ataacgcaac tggagacctg aagttactac gacgtacatt aagtgccatc aaaagtcaaa 420
 attatcactg cacaactcgt agtgggaggt ttttacggtc cctgggtaca ggtgatgatt 480
 cttattttctt acatgacggt gcccaatctc tgcttcaaag tgaagatcaa ctgtatactg 540
 ctctttggca caggagaagg atactaatgg gtaaaatctt tcgaacatgg tttgaacaat 600
 caccattgg nagaaanaag caagaaagaa ccatttcaag gaaaaaata gtagtaaaaa 660
 ngagaagtaa agaaaaagac ggcagggaat tgggagtatc aagttaaagc anaattggga 720
 aaagtangcc tccaagaaag agtttacgtt ta 752

<210> 2049

<211> 666

<212> DNA

<213> Homo sapiens

<400> 2049

ctagtgttaa attggaaaat atcaataatt aagagtattt tacccaagga gtcctctcat 60
 ggaagtttac tgtgatgttc cttttctcac acaagtttta gcctttttca caagggaact 120
 catactgtct acacatcaga ccatagttgc ttaggaaacc tttaaaaatt ccagttaagc 180
 aatgttgaaa tcagtttgca tctcttcaaa agaaacctct caggttagct ttgaactgcc 240
 tcttcctgag atgactagga cagtcggtac ccagaggcca ccagaagcc ctcagatgta 300
 catacacaga tgccagtcag ctcttggggt tgcgccaggc gccccgctc tagctcactg 360
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 agtgagcttt actcacgtgg cccttgcttc atccagcaca gctctcaggt gggcactgca 480
 gggacactgg tgtcttccat gtagcgtccc agctttgggc tcctgtaaca gacctctttt 540
 tggttatgga tggctcacia aatagggcc ccaatgctat tttttttttt ttaagtttgn 600
 ttaattantt gttaaagatt gtctaaaggg caaaggnaat tgcgaaaatc aagtccgtca 660
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<210> 2050

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2050

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ttttgatgag cgggatcttc aatattcatg ttattttctc ctttggtctt atatgattgt    60
tacctttatg aagctttagt gattacaaag cacttttttt gtccattttt acctgagctt    120
tgtaaactct gatttgcagg atggctggct gtggtgaaat tgatcattca ataaacatgc    180
ttcctacaaa caggaaagcg aacgagtcct gttctaatac tgcaccttct ttaaccgtcc    240
ctgaatgtgc catttgtctg caaacatgtg ttcatccagt cagtctgccc tgtaagcacg    300
ttttctgcta tctatgtgta aaaggagctt catggcttgg aaagcggtgt gctcttcgtc    360
gacaagaaat tcccaggatg ttccttgaca agccaacctt gttgtcacca gaagaactca    420
aggcagcaag tagaggaaat ggtgaatatg catggtatta tgaaggaaga aatgggtggt    480
ggcagtacga tgagcgcact agtagagagc tggaagatgc tttttccaaa ggtaaaaaga    540
acactgaaat gttaattgct gggtttctgt atgtcgctga tcttgaaaac atgggtcaat    600
ataggagaaa tgaacatggg cgtcncaagg aagattaagc caagatataa taggatattc    660
caaaagnaaa ggganttaac tgggccttaa gg                                     692

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<210> 2051

<211> 302

<212> DNA

<213> Homo sapiens

<400> 2051

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tagagggcca ccttagcacc cgccgcgtcg cagctccggg actggccccg gccgcgacgc    60
cgccgcgatg ggcaacgccg ccgccgcaa gaagggcagc gagcaggaga gcgtgaaaga    120
gttcctagcc aaagccaagg aagatttcct gaaaaaatgg gagacccctt ctcagaatac    180

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agcccagttg gatcagtttg atagaatcaa gacccttggn accggctcct ttgggcgagt 240
 gatgctgggtg aagcacaggg agagtgggaa ccactacgcc angaagatct tagacaggca 300
 gn 302

<210> 2052

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2052

cctgctgacc accgacgacg ccatggtctc catcgacccc accatgcccg cgaattcaga 60
 acgcactccg tacaaagtga gacctgtggc catcaagcaa ctctccgaga gagaagaatt 120
 aatccagagc gtgctggcgc aggttgcaga gcagttctca agagcattca aaatcaatga 180
 actgaaagct gaagttgcaa atcacttggc tgtcctagag aaacgcgtgg aattggaagg 240
 actaaaagtg gtggagattg agaaatgcaa gaggtagatt aagaagatga gggaggagct 300
 ggcgccagcaga agcagcagga ccaactgccc ctgtaagtac agtttttttg ataaccacaa 360
 gaagttgact cctcgacgcg atgttccac ttacccaag tacctgctct ctccagagac 420
 catcgaggcc ctgcggaagc cgaccttga cgtctggctt tgggagccca atgagatgct 480
 gagctgcctg gagcacatgt accacgacct cgggctggc agggaattca gcatcaacct 540
 tgtcacctc aagaggtggc tgttctgtgt ccacgacaac tacaggaaac aacccttcca 600
 caacttccgg gactgcttct gcgtggccca agntgatgta cannatggctc tgg 653

<210> 2053

<211> 558

<212> DNA

<213> Homo sapiens

<400> 2053

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attttcccgt tgcattctgt gtccaagga tgaagtggac ttggatgagt tattagctgc 120
 tagattggta acgtttctga tggacaatta ccaggaaatt ctgaaagtcc ctttggcctt 180
 gcagacctct atagaggagc gtgtggctca tctacgaaga gtccagataa aatacccagg 240
 agctgatatg gatatactt tatctgctcc atcattttgc cgtcaaatta gtccagagga 300
 atttgaatat caaagatcat atggctctca ggaacctctg gcagccttgt tggnggaagt 360
 cataacagat gccagactct ccaacatnga gaaaaggaag agactgaanc agtttcagaa 420
 atcctatcct gaagtctatc aagaacgatt tcctacacca gaaagtgcag cacttctgtt 480
 tcctgaaaaa cccangccga aancacagct gctaattgtg gcactaaaga agcctttcga 540
 accatttcaa gagnaacta 558

<210> 2054

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2054

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 aatcgcttcc tccccgcag gccagacgga tgaccaggc cccctcgatg gccctgacct 180
 ccaggccagc cactcagagc tccaggtgcc caccctggc agagccggcc tactgaacac 240
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 taagttcatg atcaaccttc tcaagagatt cagcagcgaa tggaagctcc tggaggtcag 360
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 aatggcagac atcctgctgc gggaggagga cctcaagttc gcctcgacca tgggccacgc 480
 cctcaacacc atcctgctga cctccacaag agctcttcca gctaaggaac cagctgaagg 540
 acctgaaaga nccctggagaa gccanaacct gtctgctgc ctgtaccgct cctggtgcc 600
 aaaccagtc aacaagggtg ccctctggtt cctcaaccaa gaactaccgg gaacgcctat 660
 gacctcatcc aaaaatttgg ggacctggag ggcaacgtgg acttcctccc aaaaggtgga 720
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<210> 2055

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2055

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ctgccgccct cccgccccgg ccgctgctcc ttctgccgct agtgctgctg ctgagcggcc 180
gccccacgcg cgccgacagt aaggtgtttg gggacctgga ccaggtgagg atgacctcgg 240
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gagtgcgcag tgggcgggca cgcgtaggagg acttctacac ggtggagact gtgagctcgg 360
gcactgactg ccgctgctcc tgtaccgcac ctccctcctc tctcaacccc tgtgagaacg 420
agtggaagat ggagaaactc aaaaagcagg cgcccagct cctcaagagc atcaaggcca 480
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ggcactattg agaatcactc tgccatcatg ctgggcatca agaaggagct gtcccgccctg 600
ggcctccanc tgctgcaaaa ggatgccgcc gccgcccctg cnaccctgca acgggcaact 660
gtancaaagg 670
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<210> 2056

<211> 615

<212> DNA

<213> Homo sapiens

<400> 2056

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cctgaggagt cgcggcggga gctgctggag cagatagcag actgctgcat gcgccagggc 120
agctaccacc tggccaccaaa gaagtacacg caggccggca acaagctgaa ggccatgagg 180
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gcgctgctca aatccggaga cacggagaaa atcacgttct tcgcgagcgt gtccaggcag 240
aaggaaatct acatcatggc tgctaactac ctgcagtccc tggactggcg gaaggagccg 300
gagatcatga agaacatcat cggcttctac accaaggggc gggccctgga ctccttggt 360
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cacggggcgc tgacttgagg cctacaagtg cctggccaag gccaaggcca agagccccct 480
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ctcctggagg aanca 615

<210> 2057

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2057

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aggccgggcc atcatccact tcgccttctt cctgagtgc agcattctcc tgggtggccac 180
ctgggtgact catagctcct ggctgcccag cgggattcca ctgcagctgt ggctgcctgt 240
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aagcaggatc agaccagcc agcagagatg gagagtgact ctgttggcag aaggcaggcg 540
aggataagct aacgatgctg ctgtggcctc tatgcactca gcaagagcgg gacgcctgtg 600
ctgggccggg caccaaggat ggtgctgagt cgggcaaaag gntcctttc aaggagtcca 660
aaagtgaaca agatgagaan ggctggggcc ctgganggtt caagaagccc caatttatgt 720
tcaa 724

<210> 2058

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2058

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taaaaaaccc gctccagcac ccccgaaacc gggcaacca cctcctggcc accccggggg 60
ccagagttct tcaggaacat ctccagcatc acccagtctg tcaccaaagc caccaccccg 120
aagccccctct cctcccaccc agcacacggg ccagcctcca ggccagccct cggccccctc 180
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cccaccgccg cagcccccta cgcaggccac gccactgatg cacaccaaac ccaatagcca 300
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ccctccccag actccaacgc ccccagtac tccgccccta ggaaaacaga accccagtct 420
gccagctcct cagaccctgg cagggggtaa ccctgaaact gcacagccac atgttggaac 480
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ccaacctcct ggtgtccact cagctgggga cagcaagcct caccaacaca gcaccaacag 600
cttccaagat agtaacaggg ttccagaacc gcatcgcagc atctttcctg aaatgcactc 660
agactcagcc agcaaagacg ttgcctgggc cgcacccctg tggatataga caattgatac 720
cggagaagca ctgcccctgt tgaaggaaaa ggcccttttc cangcccttc caacaanttt 780
ccaaccctgg n 791

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<210> 2059

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2059

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angctcttag gctccacccg gccctgaaca gctggcttgt cttggngtct cttgtgccac 60
cctccccagg aacagnngct tccttgtatt ggcgccagcg atgatgggcc agctctgtgc 120

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taaacggagt cttgctctgt tgcccaggct ggagtgcaat ggtgcatct cggctcactg 180
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 ccttctgcaa ccacgagaaa tcctgtgatg tgaaaatgga ccgtgcccgc aacaccggag 360
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 gaggaccgc cccctgagca gcccgcgta ctgtggatcc agctgttcgg ttctgggtcca 540
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 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt anngggtgt 639

<210> 2060

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2060

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 cagtatgaaa gcatggacca catccaagct gagctgtcgg ctagagtcac ggagctggcc 120
 ccagctggga tgcccacca gcagcaggtc ccccttctgt ctgtgggtgg ggacattggg 180
 gtccggaccg ttcagcacca agactgcagc cccttgagcg gtgactatgt cattgaggat 240
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 ggcgggggca gcctccccct ctttgtccac gatcaatttc caaagtccg cattgatgct 600
 gtggagatcg atccctccat gttggaagt gccacccagt ggtttggtt ctcccagagt 660
 gaccgaatga aggtccacat tgcagatggc ctggactata tcgccagctt ggcaggagga 720
 ggagaacacg gccttgcttc naaa 744

<210> 2061

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2061

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annaaatatg cccagatgg caaactttgt atacaacatg tacatgcatt tgatacagac   60
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ggaagttcaa aatcaagaaa cagaattgga aacagaagaa gaggccatga ctgttcaagc  180
tgacatcata ccagatccaa cagacaccag ctgccgtcaa gaaactccag cctttcaaac  240
tgacaccacc ccagtgaga caggagccac ttccactcca gaagccatcc ttgctttatc  300
tgagaccacc cctactgtgg taggagctgt atctgcaccg gcagaagcta acacacctca  360
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caaataacca ttcctttcat gttttgatca ctgagtgtgt ctgtaatcat acctacatta  660
aatcatTTTT ctatgaatat ataatatata cttcacattt ttagtgaact tctctaaaga  720
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<210> 2062

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2062

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actgggctgt gcggagaaat cnacttacta aanagagat taagaaagaa tactatgcgt   60

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 tcttcaataa agtgattgcc aatgaatcaa aaaaccgaat gagtctgtgg aacatttcta 720
 cagtgatggc accgaacctt ttcttcagta gaagcaaaca ctctgattat gaagaattac 780
 tggtagcaaa cactgggggc cacat 805

<210> 2063

<211> 599

<212> DNA

<213> Homo sapiens

<400> 2063

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 agcccaagcc tacaaccca gtggagatta aagaggagct gaaaagcacg tcaccagcca 180
 gcgagaaggc agaccctgga gcagtcaagg acaaggccag ccctgagcct gagaaggact 240
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 agacggattc cccaacagtc catttgggcc tggactctga ttcagagagc gaacttgtca 360
 tagatttagg agaagacat tctgggcggg agggtcgaaa aaataagaag gaacccaaag 420
 aaccatctcc caaacaggat ggcatgtgct agttgttagt aaaactccac catccacgac 480
 ggtgggcagc cattctcccc cggaacacc ggtgtcacc cgctcttncg cccaaacttc 540

cgcggtctggc gccacagcca ccaccagcac gtntccacg gtcaccgtca cggncgccg 599

<210> 2064

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2064

gcgtgccggg tgtcatggcg gcctgcaggt actgctgctc gtgcctccgg ctccggcccc 60
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 gagcactatg gagtagcgca gggctctcag ctgtggccgt ggacttaggc aacaggaaat 180
 tagaaatata ttctggaaag ctggccagat ttgcagatgg ctctgctgta gtacagtcag 240
 gtgacactgc agtaatggtc acagcgggtca gtaaaacaaa accttcccct tcccagttta 300
 tgccttttgt ggttgactac agacaaaaag ctgctgcagc aggtagaatt cccacaaaact 360
 atctgagaag agaggttggt acttctgata aagaaattct aacaagtcga ataatagatc 420
 gttcaattag accgctcttt ccagctggct acttctatga tacacaggtt ctgtgtaatc 480
 tgtttagcagt agatggtgta aatgagcctg atgtcctagc aattaatggc gcttccgtag 540
 ccctctcatt atcagatatt ccttgnaatg gacctgttg ggcagtagca ataggaataa 600
 ttgatggaga atatgttggt aaccaacaa gaaaagaaat gtcttctagt actttaaatt 660
 tantggttgc tggagcacct aaaaagtcag attggcatgn tggaagcctc tgcagagaac 720
 attttacagc aggacttttg ncatgctatc aaagggggag tgaaatatcc caacaaataa 780
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<210> 2065

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2065

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 gtccagattc ttcctttcct agaatgtcag ggctagggaa gtgctgagac cctctgggtc 180
 acccccaccc cctaatttta tgaaagacaa ggataaagtc ccagggaac aatgtgttca 240
 aggctaccca gtgacgcatg accccataca ggctctataa ggatgttaca ctcgggtcatc 300
 tctacatgcc tggtagctag cacaggatcc tggtagattg gaggtgcttg agtaactgtg 360
 aatacaggaa catagtcatt taatagcaaa gctagagccc tgtccccaa ggccagctta 420
 ctgcctcccc tccccctcac gcctggcatc ccacctggat gtatgcatgg ttggtcggat 480
 gaaactcctc cccaacagga ttaggacact cgcctcaca gcgataggcg ttgtactgct 540
 tggggtagat gatccaggag ccccatnca tcaggttgaa gtccacctgg aacttgacct 600
 tccgacacag ttgacttctg tctggcaagt gatgncgacg gtgcctnttg 650

<210> 2066

<211> 563

<212> DNA

<213> Homo sapiens

<400> 2066

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 atgggaggac gaagaggctc caacaggaca tcttactgtc gaaatccgt ctgtgagccg 180
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 aagacagtgt ggtgggtatc accttccac ccacctccc acacctnct gaacttccat 480
 ctgatcgact tcaacttgct gatggtgacc accatcggtc tgggccgncg nttcattggg 540
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<210> 2067

<211> 782

<212> DNA

<213> Homo sapiens

<400> 2067

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caagtcacccc actgatattt tcctctctga ttggttctgg atgtcagata tttgctgtgt 180
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tcagtacagc catatttgtc tatgctgcta cgtctccagt gaatggttat tttggaggaa 300
gtctgtatgc tagacaagga ggaaggagat ggataaagca gatgtttatt ggggcattcc 360
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tgtatttcat cttcacgtct ttctggccat ataaagatct attatggcta tgggcttcat 720
gatgctgggt ctgggtatcc tngncattgg gactgnctgn gtgactattg ggtgcacata 780
tt
782

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<210> 2068

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2068

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aaaaaaaaaa aaacatatca gaatcacact gtggtttttc tgggatcaga gaagggaatc 60
atcttgaagt ttttggccag aataggaaat agtggttttc taaatgacag ccttttcctg 120

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gaggagatga gtgtttacaa ctctgaaaaa tgcagctatg atggagtcga agacaaaagg 180
 atcatgggca tgcagctgga cagagcaagc agctctctgt atgttgcgtt ctctacctgt 240
 gtgataaagg ttcccccttg ccggtgtgaa cgacatggga agtgtaaaaa aacctgtatt 300
 gcctccagag acccatattg tggatggata aaggaagggtg gtgcctgcag ccatttatca 360
 cccaacagca gactgacttt tgagcaggac atagagcgtg gcaatacaga tggctctgggg 420
 gactgtcaca attcctttgt ggcaactgaat ggagtgattc gggaaagtta cctcaaaggc 480
 cagcaccagc tggttcccg caccctcttg gccattgcag tcatcctggc tttcgtcatg 540
 ggggccgtct tctcgggcat caccgtctac tgcgtctgtg atcatcggcg caaagacgtg 600
 gctgtggtgc ancgcaagga gaaggagctc acccactcgc gccggggctc catgagcagc 660
 gtcaccaagc tnagcggcct ctttggggac actcaatcca aagacccaaa gccggangcc 720
 atcctacgcc acttcatgca caacggcaaa gctcgccact cccggcaaca cggccaagat 780
 gctnat 786

<210> 2069

<211> 770

<212> DNA

<213> Homo sapiens

<400> 2069

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 ttgtggtctc ctaaatgccc atctcgttgg ccttggttcg gctagtggta tggaggggtg 180
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 gaaggtcctn cggacagaac ctatttgttt gaggctgcga ttttctctct ccagtacct 540
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gggtcttcag ttgaaaaaga tcctgggtat gtttacatcc caacaatgga aacatctgag 660
 caatgatttc ttgaagaccc agcaggagaa gaggcacagt tggttcaagg caagtggtag 720
 catcaagaag ttncgagctg gctcagcatn ttttnacat tcccaagtct 770

<210> 2070

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2070

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 ttggtggtgt cattgccttt tcaagctaca acaagagaga caacaactgc cactttgatg 180
 ctgtcctggt gtccttcac aatTTTTTca cttctgtcct ggcaacattg gtggtgtttg 240
 cagttctggg cttcaaagca aatgtcataa atgagaaatg cattacacaa aattcagaga 300
 cgatcatgaa atTTTTgaaa atggggaaca ttagtcagga tattattccc catcatatca 360
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 aagaagaaga gtttctgct cttcatctca attcctgtta aattgaagaa gagctaaata 480
 aagctgttca ggggaccggc ttagctttta ttgcctttac agaagcgatg acacattttc 540
 ctgcatctcc cttctgggtca gtgatgtttt tcctcatgct ggtcaatcta ggccttggca 600
 gtatgttttg aaccattgaa gggattgtca cgcctattgt ggacactttc aaagtgagga 660
 aagaaattct tactggtatc tgggtggctt tggcattttg nattggcctg atattgngca 720
 acgctctgga aattactttg gtacaatggt tgatgattat tctgctacac tgnctctgct 780
 aaat 784

<210> 2071

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2071

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ggagggttatt acagatgtac tcgctatgaa gtcattcaac acgtggagga gcaatccaag	120
gaaatgactg tggaggctga gaaaaaacac aaacgatttc aggaacttga cagatttatg	180
cactattata caagatttaa aaaccatgag catagttatc agctagaaca acgccttctt	240
aaaacagcca aagaaaagat ggagcaattg agcagagctc tcaaagaaac tgaaggaggc	300
tgtccagata ccactttcat tgaagatgca gttcatgtgc tcttaaaaac tcggcgcatt	360
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aggccttacc ttcgcacacc ccgccacaag atcatcaaag cagcatgcct tgtacagcag	540
aagaggcaag aattcctggc atctgtggct cggggagtag ctcctgcaga ctcaccagaa	600
gctccaaggc gcagctttgc tgggtggaaca tgggattggg aatatttagg atttgcatca	660
ccagaggaat atgctgaatt tcagtatcgg aggaggcaca gacaacgtcg tcgaggagat	720
gttcacaggt ctactcagta atccttcaga ccctgttgag ccaagtgaaa gcactttaga	780
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<210> 2072

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2072

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cagattcttt atcagatgaa gttacacaca atagcaatca gaataacagc aattgttctt	180
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tctgctctcc agtgaacaa actcatattg atattaattc caaatcagg caagaagatg	300
aaaattttta cagcctttta caaatggag atatttttaa cagttcaaca gaggaaaagt	360

tcaaagctca tgataaaaaa gattttaact tacctgaata tgatttgaat gttgaagagc 420
 gattagtctt aattgagaaa agtggtgact caacagccac agctgatgac actcaciaat 480
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 tcatggaaag atcaaaaaca caggatattg tgcttggaac aagcttttta agcattaatt 600
 ctaaagagga aactgggcac ttggaaaatg gaaacaagta tcctaatttg gaatccgtaa 660
 ataaggtaaa tggacattct gaggaactt cccagtctcc taatcggaacn ggaaccccat 720
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<210> 2073

<211> 695

<212> DNA

<213> Homo sapiens

<400> 2073

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 ccaggagagc aagattcgat acaaaaccaa tgaacctgtg tgggaggaaa acttcacttt 240
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 tgtgagccag cgcttccagc tcagtaactc ggggtccaaac agcaccatca agatgaagat 420
 tgccctgcgg gtgctccatc tcgaaaagcg agaaaggcct ccagaccacc aacactcagc 480
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 gtctgggtct ccaggccctg gtggcagcaa cacagctcca tccacaccag tcattggggg 600
 cagtgataag cctggtatgg aagaaaaggc ccagccccct gaggccggcc ctnancggct 660
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<210> 2074

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2074

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gacggccggg aggagatcta ctctctcaac accaataatg ccttctcggg ggtggccacg 120
tacaccgaca agttgttcaa gticcgcgaat aaccggtggg aagacatcct gagcgatgag 180
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ggacatcg 608
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<210> 2075

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2075

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caccaagctg ggctgcggcc ttcttgacta ccgggagcag gctcagcaga tagaattgaa 180
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ggtgaagatg accgcccagg agctcgccaa tggaattcct gactctgggc acctgtacgc 420
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 ggcatgggaa ccacttnaa gcctggcaga tgaaaactc 819

<210> 2076

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2076

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 tacaagacca cggtatgacat cgtgaagggt gaagtctggg atgtagtaga caaaggaaaa 180
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 ttcgacatta ccaagcagtg gaccttcaat tacattctcc gggagcttcc aaaagtcccc 360
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 cagctggaca tggacgccac gctggaggag ctgtcgggtgc agcaggagac ggaggaccag 660
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 ttggccggct taacgggcag a 741

<210> 2077

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2077

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gcagagttgg tgtcttttaa acatcctcat gttgcaaacc cagcattca aatggcctct 180
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ttggtaaaga aaggaaaaag caaagttggg gacatgttgg aaaaagcagc agagttactg 480
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catttatgta aaccctaatt tagagcaatt gacagctcaa acctgaaaga cgattacagc 660
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tttaagcaag ctgaggagta cctgncattt gcctttgaca tttcaccgt ctagtcagaa 780
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<210> 2078

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2078

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cccgaggctg ggggcacctt gccctctcgc ctgcagccca ttctctctct ggacccctca 180

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ggctctcatg ccccgctgct gactgtgccc gggcttgggc ccttgccctt ccactttgcc 240
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<210> 2079

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2079

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<210> 2080

<211> 791

<212> DNA

<213> Homo sapiens

<400> 2080

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ggcgcaactc caggagccca tctcgctggc cagctgcgcc atggctgac tggttccaga 660
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gccatntaca tgcagacatg gangacactg gcatacaggt cgaagatcgt gttctgacct 780
tacgcagcag a 791
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<210> 2081

<211> 815

<212> DNA

<213> Homo sapiens

<400> 2081

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<210> 2082

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2082

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gaaagaaagc tagatcattt gctaaagcag ccattgagaa acagaaatca gcatttattc 180
gttggggaat aatggcagat tggaataatt gctactatac atttgatggg aagtatgaag 240
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atggtcttgc agtcatccat taattcctga taaagcctct cctcttttac ctgcaaatca 720
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<210> 2083

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2083

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 ggtggacgat taccagatgg acttccaccc ttctccagta gtcctcaagg ttataagaa 180
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<210> 2084

<211> 687

<212> DNA

<213> Homo sapiens

<400> 2084

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gggcaccggc ctntgtcccc gggctaa 687

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<210> 2085

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2085

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nccgaggtct ctgcagacaa actggtggca ctggggctgt tcagccagca ctttaatttg 60
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aagcccatgt tggagtgggc ccacgggggc ttcaagccca ctgggatcga gggcctcaaa 240
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ttagaatcaa ggaaatacga gaacaagact cgaagacgca cagctgacga ctgagccacc 360
tctgactact gncccgccacc caagcgctn aagacaaatt gctataacaa cggcaaagac 420
cgaggggatg aagatcagag ccgagaacaa atggcttcag atgttgccaa caacaagagc 480

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agcctggaag atggctgttt gtcttgtggc aggaaaaacc ccgtgtcctt ccaccctctc 540
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 atgaccatgg ctatcagtct tactgcactg tgtgctgcga gggccgagag ctgctgcttt 660
 gcagcaacac gagctgctgn cgggtgtttct gtgtggagtg cctggagggtg ctggtgggca 720
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<210> 2086

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2086

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<210> 2087

<211> 698

<212> DNA

<213> Homo sapiens

<400> 2087

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gcaaagaaat tatattggga ctttgcttgt tatcactagt tctatccatg attttgatgg  300
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aagaaactgt tactcctgag cagcttcaga tagctgaaga caatcttcgg gccctcctca  480
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gcaaacgtgt tgctcttacc atcgccctgn tccacgtagc tggcaaggtc ttcattcact  600
tgccactgct agtcttccaa cccttctgga ctttctttgc tcttggcttg gtttgggtgn  660
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<210> 2088

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2088

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gaagatgact tcctcaacaa cgccatgtcc tccctgtact cgggctggag cagcttcacc  180
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gcgtccaagg tccaggaggt cggtagtaag ggatggcggg acgtcaccac ctttttttcg  420
gggaaagcag agggccctt ggacagcccc tcggaggggcc acagttatca gaacagcggt  480

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ctggaccact tccaaaacag caacatagac cagagcttct gggagacctt tggaagtgt 540
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 accgagagga ggagctcgga cagctgggag gtgtggggct cggnctcacc aacaggaaca 660
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<210> 2089

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2089

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<210> 2090

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2090

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gcttgngtaa tg 672

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<210> 2091

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2091

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atatggaaaa ctggntcgag cggtttcttt tggctcacia ttatcctaaa gtgaggactt 660
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<210> 2092

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2092

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tgga 665

<210> 2093

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2093

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gaagcatgag gatgnttgta cagcgtatt aattacaggc ttcaattccc tggcctggaa 660
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<210> 2094

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2094

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 gatgaaccag gagcagttca ttgagctgtg caagacgctt tacaacatgt tcagtgaaga 720
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<210> 2095

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2095

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<210> 2096

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2096

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<210> 2097

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2097

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 ccactgntca aagcgcaacg gcttggtggg n 751

<210> 2098

<211> 615

<212> DNA

<213> Homo sapiens

<400> 2098

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<210> 2099

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2099

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tggaagagcc ttatttgcac cctcaaccct tagtagacat gagttcattc atatgggaaa 180
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<210> 2100

<211> 862

<212> DNA

<213> Homo sapiens

<400> 2100

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caaatgacaa gcatgttggc cattttgatg gattactgcc atctcagaga ttccaacttc 240
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 tcgaagtgat cttattgatc aaatgaatgc ttcangacca attaaaggag aagatgggga 780
 tattcaagat ntagaaaatc tgaagattnc agtcctgaat tggagaccgg gggtcaccat 840
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<210> 2101

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2101

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<210> 2102

<211> 880

<212> DNA

<213> Homo sapiens

<400> 2102

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tattaaggag agcgacaaca atgtaaaact catagttttg gatcgcttga tagaattaaa  180
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<210> 2103

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2103

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<210> 2104

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2104

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 aatcttacag gtgcttgag atgtgtttga tgccccgggtg tatggtatag acactgncaa 780
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<210> 2105

<211> 905

<212> DNA

<213> Homo sapiens

<400> 2105

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<210> 2106

<211> 832

<212> DNA

<213> Homo sapiens

<400> 2106

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<210> 2107

<211> 844

<212> DNA

<213> Homo sapiens

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<210> 2108

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2108

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<210> 2109

<211> 691

<212> DNA

<213> Homo sapiens

<400> 2109

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<210> 2110

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2110

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<210> 2111

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2111

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<210> 2112

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2112

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anaaagcgtc tggaggagat catgaanagg actcggaagt cagaagtttc tgnaaccaag 720
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<210> 2113

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2113

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 gagaagatag ccggcccat tggcatgcgt atgagccac cggcctgggt tgaactaaag 180
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 aagctgtgct gtgtgcagtc ccagtgccc tcccaggtg tcaatgttcg aaccattggg 360
 cagcccacca ggcttaggag tgtggcccag aagattttac ttcagattaa ctgtaaattg 420
 ggtggtgagc tctggggagt ggntattcct ctgaaacagt taatggtgat cgggatggat 480
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<210> 2114

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2114

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 cagggccctg ttacataaac cagagatgat aaaacagata ctccagaac atagtgtgct 180
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ggacgatgga cngaagaaaa 800

<210> 2115

<211> 813

<212> DNA

<213> Homo sapiens

<400> 2115

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cagaagccag ggggttgnaa ggggagnaag ctttttggaa caaggcaagg atgcccaacc 780
ggttgctttc aagcttgnct tccttgcccc aag 813

<210> 2116

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2116

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tgcctgcggg agcaggtgga gaagaagaac ggcgagctga agagcctgcg gcagagggtc 480
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cagtgggtgga gccactggc ctggatgctg ggcacctggc tgcnggacc cacctggagc 660
cgggacctac cccacacttg nagccctttc agtacctgga agganggttc acattttccc 720
acgtgggcca 730

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<210> 2117

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2117

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cctcgccgca cgcacagcct ccacctcaca atcctagcag catgatggga cccacagtc 180
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tggggcccat gggtcccggc ccacagaatt acggcagcgg catgagacca ccaccaact 420
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atcctaacag tgctaactca attccatact cctcctcatc acctggtacc tatgtgggac 540
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<210> 2118

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2118

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 gctgctgctg ccgctgctgc tgcacgaatc gccgcagccc ccagccttgc gcgtcgtcgc 120
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<210> 2119

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2119

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actcggtatg ggcggtcctt ggaggagctc ctgagggaag ctgggcctga gctcagttct	180
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gacagcggac tctgctttga gttgtggttt cggcggcggc gtgcacgaga ggcatacact	540
ctgcaggcaa cctcaccaga gatcaaactc aagtggacaa gttctattgc ccagctgctg	600
tggagacagg cagcccacaa caaggagctt cgagtgccag canatggtgt ccatgggcat	660
tngggaataa acccttcctg ggacatcaaa gccctttggg gaagccggac ccttgaatgc	720
ccctggttna acttggaaag aagccccaag aaacactttg gacttctttc tggganaatg	780
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<210> 2120

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2120

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gtgtgtctgt ttgtacagta gatggacaga gacattctac tggagatacc aaagttccct	180
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ctgaatatgt gcatcgatat gttggaaaag agccgagtgg actaagattc acaaaactat	300
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cttcactaat aaagcaagga gtaaataatg ctgaaaaatt tgactatgtc atgcagtttt 420
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<210> 2121

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2121

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 aactgtttat accaaaatct tcctttttga taccagcat tttataagta aaaggagaga 720
 gcagaagcct tggatgaatg cccttggtgg gatcagcttg gaaaaacagg cttggggggg 780
 angaagagga aatttccagg gcct 804

<210> 2122

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2122

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gaattacact attgtactgg agcttatcgg atttcacctg tagatgtaaa tagtagacct    60
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aagtcagggt ctaaagtcac tagtcatatg cttagtagcc atggaggaga gatttttttt   180
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tggaggaaga gttacagact accggattac agtagttcca ttagccagtg ttattgtgaa   300
agaatctctg acagaagaag atgtgttaaa ctgtcaaaaa acaatataca acttagttga   360
tatggaaaga aaaaatgata ctctacctat ttccacagtt ggtacaagag gaaagggccc   420
taaaagagat gaacaatacc gtatcatgtg gaatgaatta gaaacccttg tcagagccca   480
tatcaacaac tcagagaaac atcaaagagt cttggaatgt ctgatggcat gcaggagcaa   540
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gtcagagaaa gcagtgaag attatgaaca ggaaaagtct tggcaagact cagagagant   660
aaaagggat cttagagcgt tggaaaagga agaantggct gaagctgana ttataaaaag   720
attcgctgg atccccagaa ccttccaaac aaaaaacccc cttggttga aatgggatgn   780
aaccttcccc aagtgggaaa aa                                           802

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<210> 2123

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2123

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gggcgtgccc ctcctcggaa cacaacagta gaccttaata gtggaaacat cgatgtgcct 180
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 agcattcgca ttcctgctct cttaccccca acgtccacag agctggatgt tcctcacaat 540
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 gcactgacag agagtcatac ttccttanct gctgggcttg gccctgggnc atggtctgct 720
 ttgggggcat ggcaagcaaa tttggatagg gtatggctgg atcttcaatg ngccctgaac 780
 aag 783

<210> 2124

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2124

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tgtatggtgg gctccaccca ctagatgcc a gtggcacccc ctcccagaga tgacaaacga 660
 aaaatgtctc tagacattgc caaatgtccc cttgtnaacn tncctaatt gagacccac 720
 tg 722

<210> 2125

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2125

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<210> 2126

<211> 623

<212> DNA

<213> Homo sapiens

<400> 2126

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tgggactaca gagacggggt ttcgctcttg tgaccaggct ggaatgcaat ggcgtgatct 180
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gtttattagc accatttatt gaagggatta tcttttctcc attgtgtctt cttggtaccc 540
tcatcaaaaa ttagttgacc catatgtgtt tggatttgnt tctggggtct ctattctgnt 600
tcactggtct atgngtctgt ttg 623

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<210> 2127

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2127

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gaagcagcat taagaggctt tctgggagcc ttaacaagta ccccatattc tcccaccag 180
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cggtttgatg aactcaagat gacaaatcct gccatacaga atgatttcag ctattataga 300
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aatgaattgg caaatcgaat gtctttgttt tatgctgagg caactccaat gctgaaaacc 420
ttgagtgatg ccacaacaaa atttgatatc gagaataaaa atttaccat agaaaatacc 480
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agaagcagat ttacaaatga agagacagtg tcattctgct tgagggtaat ggtgggtgtc 600
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 atgaaagggtt ggatcaaagn tcttaaggac caacctccta atagtgcgga aggtcttcta 720
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 taaatccatg cttgcaanta acca 804

<210> 2128

<211> 555

<212> DNA

<213> Homo sapiens

<400> 2128

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 agtgtggcga ggtgntnecg gaccacatca tcagggccct gggccaaggc cttccacccc 540
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<210> 2129

<211> 599

<212> DNA

<213> Homo sapiens

<400> 2129

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 aatccagttt gaaagaaatt ttgatcggca gaaaagtcgc atcctgagtc tcagctggca 180
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 cacagccgag ggaacagtct tccattttca gctggtcct gtgacatcta acagcagnga 540
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<210> 2130

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2130

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<210> 2131

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2131

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<210> 2132

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2132

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<210> 2133

<211> 790

<212> DNA

<213> Homo sapiens

<400> 2133

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 ataataaga aatgcgaagt ggtggtagtc ctcaggatta agtgtaaagg aaaatatgca 180
 aggaaaaagt agcagtgtca gcccttttgg actgcttatg atttctgcct tagagctaca 240
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 ccctcaaaga cttcagccac tgcacattac caattcagct gtgaagcatt tacaactgta 360
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<210> 2134

<211> 454

<212> DNA

<213> Homo sapiens

<400> 2134

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 aagctagtga ggcagtacaa cgaggaaggc cgcaaggctg ggccaccccc tgaaaagcgc 420
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<210> 2135

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2135

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<210> 2136

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2136

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<210> 2137

<211> 809

<212> DNA

<213> Homo sapiens

<400> 2137

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ggatttcagc tccaggctgg ctgctggacc gacttttcaa cattttttaA aaagtgcctc  180
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<210> 2138

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2138

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aagcccccat atctaagcaa aggaactgat tattgctcag ttgtaactat tngggaccag 180
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gnagaagcct tacgtgtntg ggcatctact catatgtcac cgtcttgac attactaaaa 480
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<210> 2139

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2139

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ctgcaagcag tagagaaata agacaagctt tcaagaaatt ggcatgaag ttacatcctg 180
ataaaaaccc gaataaccca aatgcacatg gcgatttttt aaaaataaat agagcatatg 240
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ctggagaact gtggtttgta aatttttact ccccaggctg ttcacactgc catgatttag 480
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tagtgagttt tgcaatgcac atgttagaag tacagtgaca gaactttgga caggaaattt 720
tgtcaacttc atacaaactg ctttgctgct ggtattgctg gctgatcact ttttttgtca 780

aaaggaggan attgtttgac ttcacan

807

<210> 2140

<211> 643

<212> DNA

<213> Homo sapiens

<400> 2140

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tagcagcagc tctggccagc ctacagcggg aggcagcgga gaccatgcag aaactggagt  180
tgaaccatag cgagctcatc cagcagagcc aggtcctgtg gaggatgatt gcagagttga  240
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gccgtgtgct ggggctaaga gagatcctga agacttatgc agctgatgtg cgcttggatc  420
cagatactgc ttactcccgt ctcatcgtgt ctgaggacag aaaacgtgtg cactatggag  480
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gaagccantg catctcctca ggcaggcact actgggaggt ggaagtggga gacangtctg  600
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<210> 2141

<211> 586

<212> DNA

<213> Homo sapiens

<400> 2141

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naaaaaaaa ataccgaatt tccaacattc catcactaat attcctcgac gccaccactg   60
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tcccctgggg accgaaaccc ttcagggaag tcattgcagg gcccttgctt agaaacaatg  180

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ggcagtctct ggagagcagc agcctggagg ggtctcacgt gggcgtctat ttctccgcac 240
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<210> 2142

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2142

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<210> 2143

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2143

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cggcaccgta cacgagctca ccagcaatgc catcctcttc ctgcagcagc ttttggactt  180
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<210> 2144

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2144

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agtggctttc ctgtccgaga tgggaaaatc aaactctcac ctgaggaaga ggagtatctt  180
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actgctgata tatgtggcat gaaacttcct tggttgtatg tgggaatgtg cttttcttca 300
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<210> 2145

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2145

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812

<210> 2146

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2146

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<210> 2147

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2147

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<210> 2148

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2148

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 actgcagccg ctgccgcca acctgccgcc agtcacctac atgcacatct acgagacgga 180
 cggcttcagc ctgggcgtgt tcctgtctaa gagcggcacg tccatcccgc tgcacgacca 240
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 gccgccgctg cagccccggg agcgagaagc cgtgcggccg ggctgtctgc gttcgcgggc 420
 cgagtacacc gaggnacagc gccctgcat cctcacaccg naccgggaca acctgcacca 480
 gatcgacgcc gtggaagggc ctgncgcctt cctggacatc ctggccccgc cctacgacc 540

ggacgatggc cgggactgcc actattaccg ggtgctggag ccggtcaggc ccaaggaggc 600
ctcagctcgg cctgtgacct gcctcgagag gtgtggctnc tggagacccc acaggccgat 660
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<210> 2149

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2149

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gttccacct tctacagctg gangcgaaat ctctcatgtt gtcccttcga ggatcaaagt 720
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<210> 2150

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2150

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gttcctctgc caaagatgtt gcaaagcagc tgaaggagca gcagatgggtg atgagaggcc  180
accgagagac ctccatgggtc catgaactca accggtacat cccacagcc gcggcctttg  240
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cggcatatgg acttttaata atgtttttga atttcgtatt ctttcattcc actgtgtaaa  540
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<210> 2151

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2151

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tagactcctt gaggcagttg tcaatgaagt tcttagagaa aggggagctt gctaacttca  180
gattccagaa ggatttctta agaccttttg aacatataat gaaacggaac aggtctccaa  240
caattcgaga tatggttgta cgggttatag cacagatggg taattctcaa gctgctaaca  300
ttcgatctgg atggaagaac attttctctg tatttcatct agctgcatct gatcaagatg  360

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aaagcatagt ggaacttgca ttccaaacaa ccgggcacat tgtcaccctt gtatttgaaa 420
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cgtgcaatgc agctttccca gacacaagta tggaagcaat tcgacttatt cgccattgtg 540
caaaatatgt gtctgataga cctcaggctt tcaaggaata cacaagcgat gatatgaacg 600
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gnatcatcaa tagatgcaaa ttagaatgta agaaccagg ggtttaacag taatggtttg 720
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<210> 2152

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2152

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aaggggagct gcttttttca ttattgctgt gatctgttta ttgctttttg acaatgatga 180
tctcatggct aaaatggctg aacaccctga aggacatcat gacagtgtc taactcatat 240
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tattagtgtc ctcttttttg gaaatttttg gacacatnca ataacagacc agcttcgggc 660
tatgaacaaa gcagcacacc aggagagcac tgaacaccgt cctgtctgga ggagtggtag 720
tgaagtgtta tattcttcat tntgnctgcc aatatcttat catctccctc ttaanagagg 780
accaaaaagg accccttaat tggatatt 808

<210> 2153

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2153

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agatgccaaag gggaaactta gaagttgttc atcatcgagc cctggtttta gctcagattc   180
ggaagtgggtt ggacaaactt atgtttaaag aggcatttga atgcatgaga aagctgagaa   240
tcaatctcaa tctgatttat gatcataacc ctaagggtgtt tcttgaaat gtggaaacct   300
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<210> 2154

<211> 792

<212> DNA

<213> Homo sapiens

<400> 2154

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 aanaataacc aaaactatcc agaatggcag ggaattgntt gagtcttccc ttigtggaga 720
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 aaaagaggaa na 792

<210> 2155

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2155

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 ggagctctgc ggccactggc tgcggccggc tctgcacacc aagaaacaga tcctggagct 180
 gctggtgctg gagcagttcc tgagtgtgct gcctccgcac ctccctgggc gcctgcaggg 240
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 cagaacccca gaccaaggan gaatttaaac aagaagacc aaaggggctt gcctggccac 780
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<210> 2156

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2156

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 ccgaatgcca ttctctaaaa agggaaaatg ttttgctatc atcagaactg caacggcaag 360
 aaaaagaatt gcacaattct cagaagcaga gtttagagct taccagtgat ctcagcatcc 420
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 gcctattcct ggcttttctg ntttggtgtt tcgggtccatt ggtggtagag aaagaaaccc 780
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<210> 2157

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2157

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atttaatctc caaagaacca aagccttttg tatttgaggg aaaagtacgt ggtcctattg  180
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gaagtctgtc ccagaatatt cagangtggc ttatcccgat tatttggtca cattccgcct  780
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<210> 2158

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2158

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aggatttcat atccagtga tataacatcg atccaagaag cagaagaata ttttaagtggg  180
gaattatata aagacctcat ctgtattct agtgtgtcag tattgggact atttagtcca  240

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accatgaaaa cagcaaaaga agattttagt gaagcaggaa actacctaaa aggatatgtt 300
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 ggaatcttga gggcatatct tgatcctctg cctncccttc ctcttcttgn ttggtgaat 720
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<210> 2159

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2159

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ggaggtgaac angggcaacc tgtcacatgg gcgaacaaa actgttggga atcaaagagc 780
 ttttcaaacc tgcctacggg gatgccatgg tgtgtccccc aagggangtt ccagtgttct 840
 t 841

<210> 2160

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2160

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 aacaggacaa aatagttgta caggttatat gtggcatagc ataaccacag taagaacaga 180
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 ttttggcaga tgagctttca gctgaggcct gatggaaatt gagataacct gcaaagacat 780
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<210> 2161

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2161

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a 841

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<210> 2162

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2162

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<210> 2163

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2163

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 tgacccgaga gtccttgcc atcaaatgcc ttgaagctgt catcctgggc atctacttaa 660
 ccaatgggca gccttccatt gagcggttcc ccatcagctt taaaacctac ttctcaggaa 720
 actactttca ccacgttgtg ctggggattt actgcaatgg gccgctatgg ctcatgggc 780
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n

841

<210> 2164

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2164

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tctgcctnac ggagccagcc agtgggagcg atgccagcct taatccggag cagagncccc 720
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796

<210> 2165

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2165

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 ggctgaagag gcctgggccc agatggagga gtaaccagga aaatcactgc cggctagtcc 180
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 gctaattttt gcatttttag tagagatggg gtttcacat gttggccagg ctggtctcga 660
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<210> 2166

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2166

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 ctctggagga accacaagca attcacaagt aatcacaggg cctcagattc gccctggtat 720
 gaccgtgatt agacaccact tccaacagtc aacactagga aaggcaattt nttcgaacac 780
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 c 841

<210> 2167

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2167

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 ctcttgcta acccgggcct caaattctct gtcagaaatg aagtaatggc taccagccac 180
 gtcacagatg aatggatgac acaaattgaa atgagtagcc tgaacactta cattgtccgc 240
 cgttacatag caacacccaa tggcgtctc agaatttatc ctggttcct catggacaaa 300
 gcatttgatc ccactaggag acaatggtat ctccatgcag tagctaatec agggttgatt 360
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 gatggtggca acaaaataag gtgcttcata atggaggaca ggggttatct ggtggcgcac 600
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<210> 2168

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2168

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gccactcgac tgttgctctg tgagcatgcc gaaaagctgt cagccgccat tgttctcaag 300
aaccaccact cccggctttc tgacctgtc aacacagcca tattgattgc tttgaacaag 360
agggagtatg aaatcccatc caacctgact cctgcagatg tctttttcag ggaggtatcc 420
caagtagata ccatctgtga gtgcttactg gagcatgagg agcaagtctt gagggatgca 480
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cgaacggtaa taatacgcca gcatgagatt gtcctgaagg tggcttatcc acaggcagac 720
agcaacctcc gaaacatcgt gaccgancac ttggtagccc tgatcgattg cttnctggaa 780
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<210> 2169

<211> 530

<212> DNA

<213> Homo sapiens

<400> 2169

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agtcactgag ttctttgtga ccctggagaa ggatccccaa caagaagact tcttacaggg 120
caggatgcct gggaaccgt atagcatcaa tgagccaggc atcgggccgc tgatgaggga 180
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tataaagaac aagatttgcc aggactgtga cttagtggcc ctcctggaag atgacagtgg 240
 catggagctt ctagtgaaca ataaaatcat tagtttggac cttcctgtgg ctgaagtta 300
 caagaaagtc tgggtgtacca cgaatgangg anagcccatg aggattgttt atcgtatgcg 360
 ggggctgctg ggcgatgcca cagaggagtt cattgagtcc ctggactcta ctacagatga 420
 agaagaagat gaagaagaag tgtataaaat ggctgggtgtg atggcccant gtgggggcct 480
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<210> 2170

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2170

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 tcaggccaag agcattgggt tactgaatta ccacctgtgt taacatttga attgtcaaga 180
 tttgaattta atcaggcatt gggaagacca gaaaaaattc acaacaaatt agaatttccc 240
 caagttttat atttggacag atacatgcac agaaacagag aaataacaag aattaagagg 300
 gaagagatca agagactgaa agattacctc acggtattac aacaaaggct agaaagatat 360
 ttaagctatg gttccgggtcc caaacgattc cccttggtag atgttcttca gtatgcattg 420
 gaatttgcct caagtaaacc tgtttgcact tctcctgttg acgatattga cgctagttcc 480
 ccacctagtg gttccatacc atcacagaca ttaccaagca caacagaaca acagggagcc 540
 ctatcttcag aactgccaag cacatcacct tcatcagttg ctgccatttc atcgagatca 600
 gtaatacaca aaccattttac tcagtcccgg atacctccag atttgcccat gcatccggca 660
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 acagaaatag aaaatgacac cagagatttg caggaaagca tatccagaat ccatcgaaca 780
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<210> 2171

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2171

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gtgcctcctg agagaagctg ctcgtcaggc ccctgccatg gctccagttg gccgactgag   180
acttgccctg gtagcccata agactctgac ttcctcagcc acctcaccca ttccccacct   240
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tctctgtctg ctcaacagtc agattgcctc ggtctggcat ggtaccctct cgaagctgct   540
gggaagcctg tatgctctgg gcatcccca ggcctncaag gagctgcagt cgggtggagca   600
ngangtccgc tagcgcatgc                                     620

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<210> 2172

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2172

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aactttatca agagcctgga tgactcgagc tgtggcatca cctacaagat ggagaaggtt   60
tactccacct tgaaagataa ggatttggag ctctacctga aactgcaaga gcagaacatc   120
aagcctcagt tctttgcctt ccgctggctg aactgctgc tgtcccagga gttcttgctg   180
cctgacgtca tccgcatctg ggactccctc ttcccgatg acaaccgctt tgacttcctc   240
ctcctcgtct gctgcgccat gctcatgctg atccgggagc agttgctgga aggggacttc   300
actgtgaata tgcggctgct gcaggactac cccatcacag atgtctgcca gatcctgcag   360

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aaagccaagg agctccaaga ctcaaagtag cccggcggca agaggccac gttcggggga 420
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 ctgaggggaa gccacaggat cggcccgaga cccaggccat gcccactggg gacacactgt 540
 gccgtgctcc ttctgccgcc acgcccagct cccacactgc cctgcactct gcctctttgc 600
 caggatactg angagggctg gagctcggga agttgncctt cctggggccan ggccccg 656

<210> 2173

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2173

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 cagatggtga tgagaggcca ccgagagacc tccatggtcc atgaactcaa ccggtacatc 180
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 ggcactggca aaaagaactg tgaaagtga attttattca gcccgactgc cagagaagtg 600
 ggaatggtat aggattgncc ccaaagtgtc catgtaactt ttggtttaac ctttgcacct 660
 tctnatgctg gatgccggtt gna 683

<210> 2174

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2174

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gatggctgca gacaggcctg cagatcaggg agcagagaaa catgaaggca caggtcagtc  180
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aacctaccaa gcttgagaaa gctttgcac tttctgctgg cctaanaaaa aaatgatttc  660
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cnccc                                           725

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<210> 2175

<211> 713

<212> DNA

<213> Homo sapiens

<400> 2175

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ccttataaat gcaatgaatg tgggaattcc ttccgcaatc actcacatct cactgaacac  360
canagaattc aacttgaga gaaaccttat aaatgcaata ggtgtgggaa ggcattcaat  420

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cagaatacac accttattca tcatcagaga attcacactg gtgagaagcc ttacatatgc 480
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 ctctctcagc atcagagaat tcatagtgga gagaaccccn ctaatgnaaa agaattgtgc 660
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<210> 2176

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2176

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 caacaccata ttgaagcctg tgcccagggt cctgnaatgc angagattct gctcattggc 540
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<210> 2177

<211> 616

<212> DNA

<213> Homo sapiens

<400> 2177

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 cgacccgtgc tgagctggat ggaccgcgag acgcgcgccc tcgccgacag ccacttccga 180
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<210> 2178

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2178

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 tcaacttcat caggttcctg gagagccact ggtttgtgtg ggtcacacag atgaatcaca 180
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 tgctggacat catcaggctc ctgaagaagt ctgggaagct gtggctggac gcctaccttc 480
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<210> 2179

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2179

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aaaatccttt taccggaaag cacacctcat tcagcatcag aggccccact caggagagaa   180
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caatggctgt gggagatctt acaagtcacc cctcatagga caccagaaaa cagatgcaga   420
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cacatnaaag aattccacag gtgagaagcc ctatgaatgc agtgactgtg agaaaacttt   780
tgccataatt cagcccttag agcacatnat agaattcaca cnggggagaa accttatgaa   840
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854

<210> 2180

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2180

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tctcagtcct acgccagatg tcccagaggc agacctttct gaagtggacc ccaagctcgt 240
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<210> 2181

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2181

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<210> 2182

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2182

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<210> 2183

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2183

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<210> 2184

<211> 878

<212> DNA

<213> Homo sapiens

<400> 2184

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gagaatttcg tacgtggact gatattaacg ttgtggttta tcatgggagc ctgattagca 180
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gagcttacag attccaagcc atcatcacca cttttgaaat gattcttgga ggctgtggag 300
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<210> 2185

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2185

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<210> 2186

<211> 809

<212> DNA

<213> Homo sapiens

<400> 2186

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<210> 2187

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2187

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aacatcacc tggacttcat caaaggggga agttggacca agnaaacct tgncccttta 780
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<210> 2188

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2188

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<210> 2189

<211> 895

<212> DNA

<213> Homo sapiens

<400> 2189

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<210> 2190

<211> 906

<212> DNA

<213> Homo sapiens

<400> 2190

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<210> 2191

<211> 681

<212> DNA

<213> Homo sapiens

<400> 2191

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<210> 2192

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2192

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<210> 2193

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2193

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<210> 2194

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2194

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<210> 2195

<211> 698

<212> DNA

<213> Homo sapiens

<400> 2195

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<210> 2196

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2196

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gatttttttg agtatttcac ttttgcatat atcccatgg cttgncattg gggtaccta 780
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<210> 2197

<211> 913

<212> DNA

<213> Homo sapiens

<400> 2197

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<210> 2198

<211> 146

<212> DNA

<213> Homo sapiens

<400> 2198

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<210> 2199

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2199

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gaaggctaaa aaagccaaag tggcagataa gaaagccaga ttaattattc ggaacctgag 480
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<210> 2200

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2200

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agcttttttg aaatggcagc agctctggat tctttctacc tcaaggagca gaccttttat   180
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tactacactg catgttgtag gaccataagc aggggtgtgt caggcttcat cgactctgaa   300
caaggtgtct ttgaagcccc tactgttgca ttttcttccc ttgagaagaa atgtgaggtt   360
gatgccccaa gctccgttcc tcacattgag gagaacaggt atctctttcc agaagtggac   420
atgactagca caaacttcac aggcctgagc tgcagaacca acaagactct caacatctac   480
cttttgattt caaatttggt ttggttatat gcagagagac tgggtgctcc gagctccact   540
caggtgaaag aatttgcggc aattgttgac gtgaaagaag aatctcatta catcttggat   600
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ttaatcactg aagtgacaac tgataccttt tgggaagtag tccttcaaaa acaggggacgt   780
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<210> 2201

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2201

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cctgagtgca caagtggccc agtacgacat ctattcgatg atgggtgggga ctgtcgtggt 180
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 cggtgagcct tccgtgtggc ctctgtgtgg aacaaggga tgacggggcc acagcaaccg 720
 tggcaaggac nggcctggct tgtgatatcc tggaacgagg acaaaaggcc acggaagccc 780
 ctntacctnc gaatgcttaa a 801

<210> 2202

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2202

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 atgaggctca gtcaagtaat caacgtaaga gagctaataa gcacaagtgg gtaccactcc 180
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 agcgagatag agaaaaaaga gatgatcaag atgacgtttc cagtgtgaga agtgagggtg 360
 gtaatatccg aggttccttt agaggctcag gaagaggccg aggacgggga agaggacgag 420
 gcagaggaaa tctctgatcg aactttgatt attcatatgg ttatcaagaa catggtgaaa 480
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 cactacaaac cttaatctca tcttaaagca cttgaaggat acacagaata gaaattgtgg 780
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<210> 2203

<211> 890

<212> DNA

<213> Homo sapiens

<400> 2203

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 cgcttgactt cattcggaac ttgtgccaga agagacatgt ttgtatccag tcctctctgg 180
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 aaaatttgaa ggtactgacg gttaagggtca atatttctga tggagtgaag gatgaattct 360
 gtaggtggtg catccaaaac aggtggagac cacgtagctt tgcaaggcca gagttaatga 420
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<210> 2204

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2204

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ttgaaggacc acttgaagga gattcgacga tgccgacggc tcatcgtgat tggctgtgga  180
accagctacc acgctgccgt ggctacgcgg caagtitttg aggaactgac tgagcttcct  240
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ccctgaaaat taaagagata cctacatgcc tcagaaggca tncgtctggg gaactgaagc  780
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<210> 2205

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2205

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gaccctcatg tggacatcat tcgccgtgga gactttttct accacagcga aaatcccaag  180

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tatccagagg tgggagactt gcgtgtctcc ttttctatg ctggactgag cggcgatgac 240
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 acgggtgcca nccaaaaaag ttggagtga aagaccctgg caccgcgcc gacacctgcg 720
 ttgaaccctt aggatccagg tccttttta cctctgaccc agcttcaatg ccanagnang 780
 gagcccc 787

<210> 2206

<211> 876

<212> DNA

<213> Homo sapiens

<400> 2206

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 tacattatc atctttatcc ttctctcact ttgcggaatc ttctccata ttccctaaga 180
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 ttattttctt tcaagaagaa gaacattttt actaaaaata aggtacaatt aaaaatttca 600
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tgtcctgcc acaatatgga gtacctggtt ggtgttagca tcaaatgag cagtttcaac 720
 ctttcacgaa tagttacctt gacttccctt ttgtaccatt ggcaaacaag tcatcattag 780
 gaactagaaa gtttggccaa gattggcatt ctggaatggg cttcaatggc caacttaant 840
 aaaatgggaa cctattantg ggctttcttt tcanaa 876

<210> 2207

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2207

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<210> 2208

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2208

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aagctgatca gtaagtttga caagcttcca gtaaagatcg tacagaagaa tgatccattt 180
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<210> 2209

<211> 866

<212> DNA

<213> Homo sapiens

<400> 2209

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tataaaatca attctcgact acttcagaac attctagatg caggtttcca aatgcctacg 120
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<210> 2210

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2210

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 gccttgcacc agcagacggt ggagtccctg cccaacctgc aggaggtagg tctccacggc 180
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 ttgaacttcc ggtgccngan acca 684

<210> 2211

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2211

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acttcgaagc catcctggct gaggctaata tccgctgtgc ttctctgca gtatgaagac  180
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ggggtctgga aaagccatgg aagatactc tggggaacct gctgcagang acgagggana  600
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<210> 2212

<211> 836

<212> DNA

<213> Homo sapiens

<400> 2212

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gagtctcaag gcgcaagagg aggccagggc tcgaccaca gagcaccctc agccatcgcg  180
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gacgagagtt ggcgagggcg gaggagtgcc gggaatcccg ccacaccggc tatagccagg  300
ccccagcgc gggccttgga gagcgcgtga aggcgggcat ccccttgacc cggccgacca  360

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tccccgtgcc cctgcgtccc tgcgctccaa cgtccgcgcg gccaccatga tgcaaactctg 420
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<210> 2213

<211> 835

<212> DNA

<213> Homo sapiens

<400> 2213

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 aaggaccttc tggaccctgc acggtggcgg atgctgatcc agcagtttcc ggtacgacaa 720
 cttaccgact acaccagctt gggaaacaat ttctgggggt tcacccttta cccttgcan 780
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<210> 2214

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2214

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ggcccagaac acaacgagta tgccctgggtg tcggcatggc acagtcttgg ctccctacctg   180
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attcanaaag tt                                                    852
    
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<210> 2215

<211> 508

<212> DNA

<213> Homo sapiens

<400> 2215

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 accccattga aagaagctct ggaagcatat aggcgggagc agaaaggcaa ganggaggcc 480
 tnanagcaaa agaagaagga caaagaca 508

<210> 2216

<211> 811

<212> DNA

<213> Homo sapiens

<400> 2216

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 gatggggccc atgttggatg ctgctacaag gaaacctatc tggcgacatg aaatcttaga 180
 tgcagatggt atttgttctc caggtgagaa agtagaaaac aaacaagtgc ttgtaaataa 240
 gtccatgccc acagtgactc agattccttt ggaaggaagt aatgtaccac agcaaccaca 300
 gtacaaagat gtaccataa cctacaaagg agcaacagac tcatatatgt aaaaagtgat 360
 gatatttca aatgctgaag atgcttttct gatcaaatg ctgctgagac agacaaggcg 420
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 cgtccccag gaagacatgc cattttgtga ttctggcatc tgtccggaca tcatcatgaa 540
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 ngatgtgtgt gaggacctcg ttcccatgg gtataactac ttggggaaag actatgttac 720
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gaacaatggn gctagataaa tgcatgccccg g

811

<210> 2217

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2217

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gcaactgtgg tgcaaaatga gcagtagtgt gatttcatac caagacttgg tgaagtgttt	180
cacattgatc atccagagtc tacaacgtgg tgatatacag ccatggctcc atagtggaag	240
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tctcagtggg actattccag ttcaaagtct tttggaaatt ggtttggaca aactaaagaa	360
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acagctcacc catagaccat ctgaattttc acaaacctga tttttcggaa ttaacactta	780
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<210> 2218

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2218

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gcgttaaagg gaaagggtcg ttgccactct cggcccacgg catcgtggtc gcctggctca 180
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gccaaactgga gaacagcctg agagagacct gggagttgga ggagttcang gaagggatag 660
aggaagagga tcaagaggaa gataagaaca ttgntgntga tgacatcaca gaacagaaac 720
cagagcctta ggatgatggg aaaagt 746
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<210> 2219

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2219

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gcgggacttt gtttgtttcc tctcgtccc tctttgttgg gctgaacacc agcctcgtca 240
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cctgcgtccg ttcgcccag gaagccaacc gcgacttcat tgatgcaccc attccagtgg 420
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cccatcagtt tccaagacct tccgctcaac atctatatgg tcatctttgg cacaggcatc 540
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 ggcacagagt gatcgatacg gatataagga ggtggtgctt aaaggtgatg ccaagaagtt 660
 acaattatat gggcagacct gcgcaatctg tctggaagac ttcaagggga aggatgaatt 720
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<210> 2220

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2220

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 tgccaaattt ggtagtcct tggatcagag cctgttggtg gaggtaggga ggaaatatgt 180
 aaagaaaaac aggaagatac ctgcactaat cattcagact tcattgagct ctgcaaactt 240
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 caaaagtcaa gaaagtgact gaatatacag tcacctttta tgaaatgagt ctctgtgtta 480
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 ccacttgaga taggttggtc atcgtgcaga aggccccagg acctcagcac acacagcctn 600
 ctcttggtct gagtaggcat catgtggggg ccagatctgc ctgctggttc catgggttac 660
 atttactgng ctgnatctca gatgttggtg tctggaagtt tattcttaan agactgtacc 720
 caactgggct ggattaatgg gaagttgcag ttcg 754

<210> 2221

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2221

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<210> 2222

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2222

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attgctctaa actgtatggt gaagttggcc aagggcaggc cccatcttag ccagtcagta 180
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cattgcctgg cagccattgc catgcaactg ccggtgctgg gtgatgggat gcttggtgac 300
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 tctctnaact tatctg 796

<210> 2223

<211> 702

<212> DNA

<213> Homo sapiens

<400> 2223

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<210> 2224

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2224

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<210> 2225

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2225

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<210> 2226

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2226

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<210> 2227

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2227

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<210> 2228

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2228

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agagaagcaa gcgttgaaaa ctcaactgaa gcaacttgag acacagaaca ataatttgca 180
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<210> 2229

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2229

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<211> 826

<212> DNA

<213> Homo sapiens

<400> 2230

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<210> 2231

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2231

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<210> 2232

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2232

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<210> 2233

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2233

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<210> 2234

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2234

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<210> 2235

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2235

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<210> 2236

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2236

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agcactgggtg aagaagagct gcctggcgga gtcctccgg ctttacacca aaagcagcag 180
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<210> 2237

<211> 839

<212> DNA

<213> Homo sapiens

<400> 2237

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<210> 2238

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2238

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 aataatcacc aacccccatc ccgacacaca cacacagtcc aaagcaaaag tcagtgtgta 180
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<210> 2239

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2239

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<210> 2240

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2240

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<210> 2241

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2241

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<210> 2242

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2242

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<210> 2243

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2243

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<211> 804

<212> DNA

<213> Homo sapiens

<400> 2244

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<210> 2245

<211> 880

<212> DNA

<213> Homo sapiens

<400> 2245

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<210> 2246

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2246

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<210> 2247

<211> 750

<212> DNA

<213> Homo sapiens

<400> 2247

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<210> 2248

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2248

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 ccccttgtcg 730

<210> 2249

<211> 660

<212> DNA

<213> Homo sapiens

<400> 2249

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<210> 2250

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2250

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<210> 2251

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2251

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<210> 2252

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2252

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<210> 2253

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2253

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<210> 2254

<211> 699

<212> DNA

<213> Homo sapiens

<400> 2254

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<210> 2255

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2255

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<210> 2256

<211> 785

<212> DNA

<213> Homo sapiens

<400> 2256

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<210> 2257

<211> 863

<212> DNA

<213> Homo sapiens

<400> 2257

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<210> 2258

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2258

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<210> 2259

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2259

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<210> 2260

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2260

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<210> 2261

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2261

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cacctagcag cccatgggtt aacgatgctg tttagacaca tggccacaaa ttacaagctt 240
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gagtctgcat tagttgggtg ttgcaatata gttcagcaag aatgggggtg tgcaattcct 420
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tgccaggttg tcctggtgac agacggctgt cttggcattg gtagagggtc actgcgacat 480
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 cccagatttg ggaaatan 858

<210> 2262

<211> 833

<212> DNA

<213> Homo sapiens

<400> 2262

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 gcacaaatag aggaaccgga tcctccagaa atggaaactt ctcttgattc ttctgagatg 180
 gcaaaagatc tctcttcaaa aacagcttta tcttccaccg agtcgtgtac catgaaaggt 240
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<210> 2263

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2263

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tggcgggcgg gcgcacggtc tcctgtacgc cctagactag gggccgccat ctccatggcc  180
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atgaatatca tctttttttc ctactgactg gagcatttat gggctatagc tatagcctcc  720
tggattttgg taacaacatg aactatcttn catttcccat catacagcaa tacaagtctt  780
gcgtttaaga aancctctgt cttatagtta ac                                     812

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<210> 2264

<211> 757

<212> DNA

<213> Homo sapiens

<400> 2264

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gttgcctaga atgcggtgag cgctgtgcac gggctgctga cctccgagcg cacaggcgca   60

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atgcgtgcgc cactttgcgg gaaagggttt cgggnan 757

<210> 2265

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2265

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cagaaccacg ctggtaaaaa cagatgtgc acaaagtga cttgcccgtt ttcatcgcac 180
tttacgtgca cgaattctac ctctactctc gacctgggac tcaccgatgc gtgaggaagg 240
actgaaaagc aaaagaacta tggactggcc ttttggcatg atcagggtgc taatataaag 300
aagtgcattga ataagaaaat atatgatatg agtgatggtt aatactgact gtcaacttga 360
ttggattgaa ggatgcaaag tattgatcct ggggtgtgtc gtgagggtgt tgccaaagga 420
gattaacatt tgagtcagtg ggctgggaaa gttcgaccca ctgttaatct agatggacac 480
catctaata gatgccagtg cagctagaaa tgtaaagcag acagaaaaat gcgaaaagag 540
agactggcct agcctgccag cctacatctt tctcccacgc tggatgcttc ctgccctcga 600

acatcagact ccaagttctt cagtttggga cttggactgg ctctccttgg tcctcagctt 660
 gaagactgcc cattgtggga cttgtgatca tgtgctcagg aagtatgtgt ggacttttgn 720
 catgggttga atagtgtccc tcgcaaagtt cacgtccaca tggaacccgt gaatgtgacc 780
 cgntgtggnt tgaatgcttc tggcaaaact taatccccat gcaccattcc aangaaatag 840
 ggtctttagg a 851

<210> 2266

<211> 815

<212> DNA

<213> Homo sapiens

<400> 2266

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 gctgaagcag ctcatccacc agcagctgag caagatggat gtccatggta gaataagaga 180
 aatccttgct gagactatac gggaagaatt ggcacctgat caacagcatt tatcaacaga 240
 agatttgatc aaagccctta gacgtcgagg aatcattgac gatgtgatga aagaacttaa 300
 ttttgttact gacagtgttg agcaagaact cccttcctct ccaaacaac ctatttgttt 360
 tgatagacaa tcgacattaa aaaaaactaa tattgatcca acacggaggt atctttacct 420
 tcaggttttg ggtggaaaag ctttcttgga acatctgcaa gaacctgagc ctttacctgg 480
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 agaaagcttg ggtgatggaa ctagaatggc tgattcaaca acaatgttat caataagtga 660
 tccaattcat atgggctaata caaaacagac atatttggtg agacgacttt agtagcatca 720
 tattttctgg aatggcgatc ggntttgggc tcanaaaatg gagtgccagt ctgactgttg 780
 acttatgggt gtaggcncag aatcaaaagt ttctg 815

<210> 2267

<211> 790

<212> DNA

<213> Homo sapiens

<400> 2267

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ggtgcgctcc aattcacggt ggtttccaag cgcatctctg aggagaaaac acatgagtgt  180
gtggtcaggg ttctctgccg acagacctac cgtggggaag aaagagaagt tctgaagatg  240
gatcatggcc gtgactgcat gtcaaggaga atctccatga tgacacggag gcctacgtcg  300
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gtcataaaac cccaggaga cgaagatgat ggcacgtcgt gaccccaaac ctggggcaaa  420
gagactggtg agagcccaga ccctccagaa gcagcggagg gcccagttg ggccaagggc  480
tccccgccc gatgaagaag atcccaggct caagtgcaaa aactgtgagg cctttggcca  540
cacggccaga agtaccaggt gccccatgaa gtgctggaag gcagccctgg ttccaccgaa  600
ctttggggaa aaggaaggga aggaaaacct gaaacatgg aagccccagg ttgaagcgaa  660
ccctggccct tgaacaagga taaggagag aaggaagaga gaccaaggcc acaagacccg  720
canaggaagg ctcttcttca catattttnc gggaaacctt cagagaacct gttgccnaat  780
caaaaaggat                                     790

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<210> 2268

<211> 694

<212> DNA

<213> Homo sapiens

<400> 2268

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tctctttaat gatggaggga agcaggcaga cgcgagtgtc tcggccatac aagatcagcg   60
aatcatcaaa ggtataccgc tgggccgacc actcaagcac ggtgctgcag cggctgaacg  120
agcagcgtct ccgcgggctc ttctgcgacg tcgtcctggt ggccgatgag cagcgtgtgc  180
cagcccatcg caacctgctg gccgtgtgca gcgactactt caactccatg ttcaccatcg  240

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gcatgcggga agctttccag aaggaggtgg agctgatcgg cgcctcctac attgggctca 300
 aggccgtggt ggacttcctg tacggcgggg agctggtgct ggatggcggc aacattgact 360
 acgtcctgga gacggctcac ctgctgcaga tctggacggt ggtagacttc tgctgtgagt 420
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 tgtcctttac gcccgaactc ctgcagaacg tctccatgca gaagctgtgt gtctacctga 600
 gcagcancga ggtgcagcgg gagtgtgagc acgaccttct gcangccgcc ctgcantggc 660
 tgacgcaaca gcccgagcgc gagggccacg cccg 694

<210> 2269

<211> 776

<212> DNA

<213> Homo sapiens

<400> 2269

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 gctcttcggc catggttttc tcaaacaatg atgaaggcct tattaacaaa aagttaccca 120
 aagaacttct gttaagaata ttttccttct tggatatagt aactttgtgc cgatgtgcac 180
 agatttccaa ggcttggaac atcttagccc tggatggaag caactggcaa agaataagatc 240
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 tcactgacag cacgtgttat agccttagca gattctgttc caagctgaaa catctggatc 480
 tgacctcctg tgtgtctatt acaaacagct ccttgaaggg gatcagtgag ggctgccgaa 540
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 tggatgcgagg ttgtcgaggc ctgaaagccc tgcccctgag gggctgcaca cagttagaag 660
 atgaagctct gaaacacatt cagaattact ggcatgagct tgtgagcctc aacttgcagt 720
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<210> 2270

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2270

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ccccatctcc gccgctcccc gcagcctccg ccgagcgcca tggctcctag gaagggcagt  120
agtcgggtgg ccaagaccaa ctcttacgg aggcggaagc tcgcctcctt tctgaaagac  180
ttcgaccgtg aagtggaaat acgaatcaag caaattgagt cagacaggca gaacctcctc  240
aaggaggtgg ataacctcta caacatcgag atcctgcggc tccccaaggc tctgcgcgag  300
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acagctgacc tggatatcac cgaaataaac aaactaacag cagaagctat tcagacaccc  420
ctgaaatctg ccaaaacacg aaaggtaata caggtagatg aaatgatagt ggaagaggaa  480
gaagaagaag aaaatgaacg taagaatctt caaactgcaa gagtcaaaag gtgtcctcca  540
tccaagaaga gaactcagtc catacaagga aaaggaaaag ggaaaaggtc aagccgtgct  600
aacactgtta ccccgagccgt gggccgattg gaggtgtcca tggtaaacc aactccaggc  660
ctgacaccca ggtttgactc aagggtcttc aagacccttg gcctgcgtac tccagcagca  720
ggagancgga ttacaacat ctttaaggga tggcaagccc ttttgcttga cagcnaaaga  780
gatcnttctt taattg                                     796

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<210> 2271

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2271

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attccgctac tgcgcaaaga tgggtggagga ggagaacatc cgcgtgggtc gttgtggcgg   60
cagcgagttg aacttttagga gagctgtgtt ctctgcagat tctaagtata tcttctgtgt  120

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ctctggagac tttgttaaag tttacagcac agttacagaa gagtgtgtac acatactgca 180
 tggacacaga aatctgggtga ctggaatcca gcttaacccc aacaaccatc tacagctgta 240
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 tgtctttgtt atagtgaata aagaaaaacc agatatattt cagctggttt cagtgaaact 420
 gccaaaatcc tcaagccagg aagtagaagc caaggagctg tcctttgttt tggattacat 480
 aaaccagtca cccaagtga ttgcctttgg aaacgaggga gtatatgttg ctgcagtagc 540
 ggaattttac ttgtctgttt attttttcaa aaagaaaaca acatcaaggt ttactttatc 600
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 ggaagactgc atcgcatctg ggcacatgga tggcaaaant cgnctttgga ggaaatttta 720
 tgatgataga aatatacgta cccatgttta cattggcacc atgatatggg tatggatttg 780
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<210> 2272

<211> 767

<212> DNA

<213> Homo sapiens

<400> 2272

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 aggggatgag tgtgagcccg agtgggtgta tgccgaggac ccactcttca tcctgtacac 180
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 cattgtggac aaatacaagg tgaccaagtt ctacacagca cccacagcca tccgtctgct 480
 catgaagttt ggagatgagc ctgtcaccaa gcatagccgg gcatccttgc aggtgttagg 540
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ccagcgctgc cccatcgtgg acaccttctg gcaaacagag acaggtggcc acatgttgac 660
tcccccttctt ggigccacac ccatgaaacc cggttctgct actttccatt ctttgngta 720
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<210> 2273

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2273

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cggcggggct gctaccacc agcatcctcc aaagcactga acgcccggcc caggtgaaga 180
aagaaccgaa aaagaagaaa caacagttgt ctgtttgcaa caagctttgc tatgcacttg 240
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ttncaggacc tcaatagctc tacaggtagc ttnacaaaat ggccaacat acacatggga 780
ccacttacac aggggaacnc caaa 804

<210> 2274

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2274

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gccaatggcc gccagttcag cagccaggtc tccattttgt cagcaatgga gctcatctgg 480
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agtgagaatc caagcaaaca tgacagcttc tggaacttgg tgaccatctt ggtgctgcag 660
ggccggctgg atgaagcccg acagatgctc ttcaaggaag cccgatgcc a gncccgcctn 720
tgcangcata tgccgaatca tgggggacct gatga 755
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<210> 2275

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2275

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aacctcctg tggagggtga ccagtacagc acaggtactt ctgcagtgga acccatcaac 180
acattccatg ggatacatca aaacgaggac gaaccattc gtgttagcta ccatcggaat 240
atccactata attcagtggg gaatcctaac aaggccacca ttggtgtggg gctgggcctg 300
ccatcattca aaccagggtt tgcagagcag tctctgatga agaatgcat aaaaacatcg 360
gaggagtcac ggattgaaca gcagatgcta gaagacaaga aacggggcac agactgggag 420
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gccacaaatg aagccatcga ggagcaggtg gctcgggaat cctacctgca gtggttgcgg 480
 gatcaggaga aacaggctcg ccagggtccga ggccccagcc agccccggaa agccagcgcc 540
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 ccgcggcagc ggagttcagc ctcgtcacct gagcaccctg agctgcatgc tgaattgggc 660
 atgaagcccc ctttcccagg cactgggtta actcttgcen aaccttcttn gnccttgtgc 720
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<210> 2276

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2276

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 tcagtattgc tccagagaac ctgcagcatg acatcatcac cagcctacct gagatcctag 180
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 tgaaggttcg ccagttgggt atggataagt tgtcgtctat tagattggag gatttacctg 360
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 ttgacctggt gatgcttttc atcatctata gcaccaatac tcagaccaag aagtacattg 720
 acagggtgct aagaaataag attcgatcan gctgcattca agacagctgn ttcanaatca 780
 ttctctggca ttacttaatt cttaa 805

<210> 2277

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2277

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atatttgaaa cacatgctac tgtaactccg tgcttcaggc attgtacttc tgccgtccat  180
tccgggagaa tgtgttggca tacaaggccc agcaaaagaa gaaggaaaac ttgctgacgt  240
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ctgttgatgt ggagcagaat acatccatta cccactgtct aagagacttc agcaacacag  660
aaacactgtg tagtgaacaa aaatattatt gngaaacatg ctgcancaaa caagaagccc  720
agaaaaggat ganggtaaaa aagctg                                     746
    
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<210> 2278

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2278

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ttgcaaaacc gcttttaata aaaccgggtt ccaagaagtg tttgatcctc ctcatatga  180
actgttttca ctaagggaca aagagatttc tgcagacctg gcagacttgt cggaagaatt  240
    
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ggacaactac cagaagatgc ggcgtcctc caccgcctcc cgctgcatcc acgaccacca 300
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 actacgaaga ccttgattta ccggtaacct attgnatggg gatggtttta ttctctcagg 720
 cagnctatat atggtaaacc catcaaggaa cttactctat tcagnggaaa ccataatcat 780
 ctctattgct tgggggcatt tatnggaagc cctggcc 817

<210> 2279

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2279

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 ccgggacggg gacgtgggtc tgccggcggg ggtggtagtg aagcaggagc gtctcagccc 180
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 gaccagcgag ccggcccgtc cgggccaccg cgggaaccga gcccaggag ttagccggtc 300
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 gagaggacgg gaggatcggc agcacaggga accatcagaa caggaacaca ggagagctag 480
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 gcctgggagt gggcagggtc agggacggga tcgagacact cagaacctgc aggctcagga 600
 agaagagcgg gagttttata atgccaggcg acgggagcat cgccagagga atgacgttgg 660
 tgggtggccgg cagtgagtct cangagtttg gntccttggg ccttgggtggg naccaacc 718

<210> 2280

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2280

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ccacagcaag aagtccaagg ccgagcagag cccagtctcg tccgatgtgg aggtgtcttc   60
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caatcaatgc gacctcaagt tctccaactt tgagagcttc cagaccacc tgaagctgca  180
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gccttcacgc catcatcctg ctggagaagc accttgcggg agaagcactg tgtgttgatg  720
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<210> 2281

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2281

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ggagaggcgg ctaaggaaag gtgccacagc agagacgcga aggagaggcc ctagaacctt 180
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 aatcttgggn taccaccac acccccacaa tttcacaagc attgaatata atcacagcac 720
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<210> 2282

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2282

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 accttgctgt gcgtatacaa actcacaggt cacaaaaacc ctacaaatgt aaggaaatgtg 180
 gaaaaggatt tagatattct gcatacctta atattcacat gggaaccac actggagaca 240
 atccctatga gtgtaaggag tgtgggaaag cttcaccag gtcttgtaa cttactcagc 300
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 gcaaggaatg tgggatagcc ttcactagat cttctcaact tactgaacat ttaaaaactc 480
 aactgcaaa ggatcccttt gaatgtaaga tatgtggaaa atcctttana aattcctcat 540
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ggccctatga atgtaangaa tgtggaaagg cctttgccag atcctctngc cttaatgaac 720
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<210> 2283

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2283

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tgattcactg actgactttg aagctgcac tgccagttac accccaaatg gctttaatcc 120
cctctcgggt ctggttgctt tttgcagttt gggttgtgga ctgagctcct gtgaggggtc 180
tggttaggag agagccattt ttaaggacag ggagttttat agcccttttc tactttcctc 240
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<210> 2284

<211> 874

<212> DNA

<213> Homo sapiens

<400> 2284

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ccaaatgcat atttgggcat tagaaggtct gtcgcactta gtagcagcat catttacaga 180
ggatagattt ggagttgtcc agacgacact accagctatc ctttaacttt tgttgacact 240
gcaagaggca gtcgacaagt actttaagct tcctcatgct tccagtaaac caccocggat 300
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tacagaagca ttgatggcag tcgaaatgtc tctagctcat ataacttaat agtaataact 780
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<210> 2285

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2285

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tgctggggat tccattgtaa gcacctataa tcgggaattt tcatgtaaca gctttgacat 180
ttaaacattc tgagtttggt gccagctcag atttgattat attttatttt ggatgggtgt 240
aattcacagc acagttctaa tctcccaaact ctttctgctt tttagaatga agtataaaat 300
acttttctca cctgaatacc aagggttggc ctttagttg gatcattgtc atatgacttg 360

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 cattagtttg tactttgaca agtaattatg aattttgggtg cttattttgc aaaggatgct 720
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<210> 2286

<211> 857

<212> DNA

<213> Homo sapiens

<400> 2286

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 tgcctttatt ggcagctggg ttcttctaca agtcccaagt tagggatctg gatatttcct 780
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tatctatgga atgatgc

857

<210> 2287

<211> 782

<212> DNA

<213> Homo sapiens

<400> 2287

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gaagaagaac ctgcgagccg acaacgcctt catgctgctc acgcaggcgc gactcttcga 60
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caccgcggag ggcttcaccg acattgacct ggacacgctg gtggctgtcc tggagcgcgga 180
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gggccagaac gacacgggct tcagctgcga cggctcanc agcacctttc gcgtcatgtt 720
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aa

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782

<210> 2288

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2288

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 cactgccaaa gcgaaatgaa gcccaactgg gcagattcgg cccatggtga tgaggtccct 780
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<210> 2289

<211> 835

<212> DNA

<213> Homo sapiens

<400> 2289

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 gacatcaatg ccaacaagga aaactgcttc ggtgctcgac tgggtacca actggggnat 780
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<210> 2290

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2290

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<210> 2291

<211> 733

<212> DNA

<213> Homo sapiens

<400> 2291

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tcatttgggt tca 733
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<210> 2292

<211> 845

<212> DNA

<213> Homo sapiens

<400> 2292

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gacatctctg tgcagatgta gaatgggcta gtgctttcta agaactgaaa gatcagtgaa 180
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<210> 2293

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2293

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<210> 2294

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2294

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<210> 2295

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2295

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<210> 2296

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2296

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<210> 2297

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2297

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 aagatccaga agtcctcang catcctgtca agccagtaaa tgggcgcaag actagcttag 720

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<210> 2298

<211> 874

<212> DNA

<213> Homo sapiens

<400> 2298

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<210> 2299

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2299

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<210> 2300

<211> 851

<212> DNA

<213> Homo sapiens

<400> 2300

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<210> 2301

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2301

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755

<210> 2302

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2302

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<210> 2303

<211> 802

<212> DNA

<213> Homo sapiens

<400> 2303

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<210> 2304

<211> 584

<212> DNA

<213> Homo sapiens

<400> 2304

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<210> 2305

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2305

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<210> 2306

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2306

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aagtatatca gcaagccgga gaacctgaac tcatgatgaa cctncttcgg gataaagtcc 780
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<210> 2307

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2307

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<210> 2308

<211> 844

<212> DNA

<213> Homo sapiens

<400> 2308

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tctt

844

<210> 2309

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2309

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<210> 2310

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2310

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<210> 2311

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2311

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tccaacatcc tgaacctcag ctacaaacag gtgaagacct ggttccagaa ccagagaatg 660
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 gcctnagcac ctacctaccc cagcct 746

<210> 2312

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2312

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 gccagccccg agaccgggnt tgtctgcttg ggcacgggtc ttcgtctcac tttggagacc 720
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<210> 2313

<211> 767

<212> DNA

<213> Homo sapiens

<400> 2313

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<210> 2314

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2314

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<210> 2315

<211> 775

<212> DNA

<213> Homo sapiens

<400> 2315

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<210> 2316

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2316

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<210> 2317

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2317

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<210> 2318

<211> 707

<212> DNA

<213> Homo sapiens

<400> 2318

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<210> 2319

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2319

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<210> 2320

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2320

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<210> 2321

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2321

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740

<210> 2322

<211> 824

<212> DNA

<213> Homo sapiens

<400> 2322

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<210> 2323

<211> 787

<212> DNA

<213> Homo sapiens

<400> 2323

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<210> 2324

<211> 661

<212> DNA

<213> Homo sapiens

<400> 2324

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 a 661

<210> 2325

<211> 863

<212> DNA

<213> Homo sapiens

<400> 2325

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<210> 2326

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2326

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cacaaatgaa gtctaccaac aacgaacact acaaaaattg ttagctacca atccatcctt 180
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caagaagaag agtgaagaaa gttacaacgt caatgattat tccttaagag atcagctatt 660
ggtggaatct tgtgacaatg aagagcttaa ttcttctnca nggaagaaca gcttcacaat 720
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<210> 2327

<211> 781

<212> DNA

<213> Homo sapiens

<400> 2327

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ggaagcccaa gacggtaccg ggggccgcag ccgcagccgg cgccgccctc cgccctcccc 180
aacagcaggc cgagtcccgt agcatccggt agggaaatgg tcgtgctttc ggtccccgcc 240
gaagtcaccg tgatcctgtt agatatcgaa ggtaccacaa ccccgattgc tttcgtgaag 300

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gacattttat ttccttacat cgaagaaaat gttaaagagt atctgcagac acattgggaa 360
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 gtgtacatct attcctcaag gagtgtggan gcacagaaac tggatttcgg gcattctacg 720
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<210> 2328

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2328

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 caatcgagag gctgaaataa agaagagggt tgaggagatg agggagaagc agcaagctgc 180
 ccaggagcaa gaaagacaaa aacgcaggtc tatcaagagc tactgtgagg atatcctaag 240
 acgccaggag gagtttcagt gtaaggaaga agttttgcag gaattaaata tgtttcctca 300
 gctggatgac gaggccacta tgaaggctta ttacaaggag tccgtgaggt ggtagaatac 360
 tctgatgtga ttctggaagt cctggatgcc agagacccat taggctgctg ctgctgcttc 420
 caaatggggg aggctatcct atgggcagaa ggcaacaaga agctggtcct ggtcttgaaa 480
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agttcatccg gcttctggat gcttccagcc attggttcca gggnccaact tcaaaaggtn 840
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<210> 2329

<211> 849

<212> DNA

<213> Homo sapiens

<400> 2329

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gcaagactga gagatttcat caaattggaa tttccacctg gatttcctgt caaaatagaa 180
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ttcagcctgt gagcctctgc acaaagcaga ngctgtgggc tgcacagatg ctgtgtcaac 780
cagggcccta aggctaangg cctggacctt gcgtgcatgc agcangcaac aactggccct 840
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<210> 2330

<211> 908

<212> DNA

<213> Homo sapiens

<400> 2330

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atttgtgtgg gcttgtttca atagatacta tgggtgccatt tcaaaattaa aaagtcaaca 180
ccaagaggac ccaaataaca cttcacttct aacaaacaaa ccagcacttc ttagatccct 240
tttcaccgtt ggagcactat gtcggcattt tgattttgat ctggaagatt ttaaaggcaa 300
cagcaagggtt aacataaaag ataaagtact tgaactattg atgtatttta caaaacactc 360
agatgaagaa gtacaaacaa acgctatcat tgggtctagga ttgccttta ttcagcatcc 420
aagtctaatg ttcgagcaag aagtgaagaa tctatataat aatattttat ctgataagaa 480
ctcctcagtc aatttaaaaa tacaagtgtt aaaaaaacct ccagacctac ctacaagaag 540
aagatacacg tatgcagcag gcagatagag actggaagaa agttgcaaaa caggaagact 600
taaaagaagt ggggtgatgtt tcctcaggga tgagtagttc catcatgcag ctttatctca 660
aacaggtgct tgaggcattt tttcacaccc agtcaagtgt cgccactttg ccctaaatgt 720
cattgcattg actctaaatc aaggncattt tcatccagtt caatgtgtgc catatttaat 780
tgctatgggc acagaccag aacctgctat gcngaacaag gctgatcagc aacttgnggg 840
aatggccaa aaatatgctg ggattcattc atatgaaacc atggctggta ttgaanagtc 900
ttaccagg 908

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<210> 2331

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2331

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aaaaaaaaa aaaaaaaaaat ataatccaca cctactactc aataccttag aaaatcttcg 60
cttcctaata aatgttgaac cagttacaaa tcgttttatt acacagtggc ttaatgatgt 120
tgactgtttc ttggggcttc atgacagaaa gatgtgtgtt ctcggactct gtgctcttat 180
tgatatggaa cagatacccc aagttttaaa tcaggtttct ggacagattt tgccggcttt 240

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tatcctttta tttacggat tgaaaagagc atatgcctgc catgcagaac atgagaatga 300
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 tgaagaacaa agaaaacagt tacaggacat agcaactctg gctgatcaaa gaagagcagc 660
 ccatgaatcc aaaatgattg agaagcatgg aggatacaaa ttcagtgctc cagttgtgcc 720
 aagttctttc aattttggan gccacacca gggatgaatt gagtatctct ttccttcctg 780
 ctgggggcct ggantgnaaa acttg 805

<210> 2332

<211> 761

<212> DNA

<213> Homo sapiens

<400> 2332

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 atttacaggt accatgcaga gaacaaaaat ttcacttttg gggagtataa atttgaccg 180
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 gaccagcatt tacgaggttt cttctcagac tccacatcat tcaatatatt gatggatatg 300
 ttatttatca aaggcaaata taaaagtgtt ttgcaagtat tgatagagat gaaaaacct 360
 gatgtgaagt tcaccaaaga tacctatgtt cttgcttttg caatttgcta caaactgaat 420
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 ttaaatatta taatccatat ccagtcaaate atgttggaata acctgataaa gactctaaaa 660
 aatgctgcan aaggaaatta tcaaaatttg ngaaaagaca tgtgttctcg gangaagtgc 720

tggccaaagt gagggaaaaa gtgaaggatg tgcctgcctt t

761

<210> 2333

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2333

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ggagcccaag gatgaggcac agaattgaggg cccggctaca gattcagagg ccccgctgaa	180
ggaggatggg cttttgcca aaccactctc ttctggggga gaggaagaag aaaaaccccg	240
gggcgaggct tctgaggacc tgtgtgagat ggccctggac ccagaactgt tgcttctgag	300
ggatgatgga gaggaggagt ttgcaggagc aaagctggag gattcggagg tccgggtccgt	360
tgcctcaaac cagtcagaga tggagtcttc ttacttcag gacatgcca aggagctgga	420
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ccggagcctt cagtacagcc gccaggaggg cctggatggt ggccttcccg aggaggtgct	660
cttcggaaac ctggacctgc tgcccctnct gggaaaagca cgaanccagg tgctgcccc	720
acagaacaca aagccctggt gtcccacaat ggcagcctga ntaacgtggg gaggcctgctt	780
cacgcgcgga cacaggacac ggccggtnta ctaagacaga tcnccttga ctgaacttga	840
gga	843

<210> 2334

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2334

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gtcaggcccc ccagtcttag gtggaaacag caactccaac tcctctggcg gggctgggac   60
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tgagaggctg agactcagtc ggggaggggg cgccttgaag gatggagcag ggatggtgca  180
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ctttgtacca cccaaggcct ctcggccccg actcagcatc ccctgctctt ctatcacaga  420
cgtccggaca accacagccc tggagatgcc tgaccgggag aacacgtttg tggttaaggt  480
ggaagggtcca tccgagtata tcatggagac agtggatgcc cagcatgtga aggcctgggt  540
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gaccctccct ctggcccctg ggacctcatt ccttacaagg gagaacacag acagcctgga  660
gctgtcctgc ctgaatcact cggagagtct acccanccag gacctgctgc ttggacccan  720
cgagaagcaa tgaccgcct gtccaagggg gcatatgggg ggccttttta aaaccgnccc  780
ttgg

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<210> 2335

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2335

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agaagtgttt gcatcatgga agcagcagtg cctgaaccgt ggcaagcaag acatcagcga   60
gaggctcatc agtgcctcat tatttctccg ttttctgtgt ccagccatta tgtctcccag  120
tcttttcaac cttatgcagg agtatcctga tgaccgcaca tctcggactc taactcttat  180
tgccaaggtc attcagaacc tggccaactt tgccaagttt ggtaacaaag aggaatacat  240
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gatctctaata ccagacacca tctcaaacac cccaggcttt gatggttaca ttgatctggg  360
ccgagagctt tcagttttgc attccttact gtgggaagta gtttcccaac ttgataaggg  420

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tgaaaattcc ttcctacagg cgaccgtggc aaaattgggg cctctccctc gtgttcttgc 480
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 tgaacataac tccagtccaa atgtcagtgg aagcctctcc tctgggctgc agaaaatatt 600
 tgaagacccc actgacagtg atttgcataa actaaaatct ccaagccagg acaacacaga 660
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 tattctgaaa aggatgaaag gggaaagtag ccttntaat gggcngacgt cttccttatg 780
 gaccttcagg acactcatgc tggtaagtg gagcatgcat ctggcatgcc tgatngcct 840
 atc 843

<210> 2336

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2336

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 gagaacctgt agatggcgtc aggaccaatg anggaatgga acacccttca cttcctngt 720
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<210> 2337

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2337

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ttatacatat aggattaata gtcataaatt atagtaaata aaacttgtac ctattccttt 180
tataaatatg aattggctag gcacagtggc tcacagctgt ggtcccggca ctttgggagg 240
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ttatttaatc atatactggt atgggttgaa tatagttggt cctaccaaaa ctcatggtga 780
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<210> 2338

<211> 594

<212> DNA

<213> Homo sapiens

<400> 2338

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ataaagatgc ttcagactgc aaagaatttg ttgaaagagg agaaattggt gcatagctat 60
ccgtatgact ggaggaccaa gaaacctgtg gttattcgtg ccagcaagca gtggtttata 120

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aacatcacgg atattaagac tgcagccaag gaattgttaa aaaagggtgaa atttattcct 180
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 ggaacttcat ggtcttatgt tcttcaggc cctgaccaa gagcagatnt gtacttggaa 540
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<210> 2339

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2339

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 aacctatgtc ttttaaggcca aggatgagaa gaatgcagaa gaatggctcc agtgcataa 540
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 tgnccittaa naanaa 736

<210> 2340

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2340

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gcaaattgca gcgttccttc agcccaggcc agatcccaga tgagttaaac tctgctccaa  180
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ccttgcatlg ttttcttggc cttcaaggta gctaaaatgc tcataatfff ttatgtcatt  360
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gacctagaga ggcacagtgt tcttgctgaa actaagaggg taggttctca gcgtgcttct  660
tatttttctt catccaaaaa tgaagcagat tttttctnc caaatatcta tcttccttag  720
taacttagag atcattcatg gaattgatct aaacctattc ttggaagctt taaccttggg  780
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<210> 2341

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2341

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gccaccctgt gacctgcgag tattgggaca tccctagctg acgccaggac acccggaagg  120

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 tcgggaacc ctcgcctccc ctatccagga ctcggtggct tttgaggatg tggctgtgaa 420
 ctttaccag gaggaatggg ctttgctaga ttcttctcag aagaatctct acagagaagt 480
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<210> 2342

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2342

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724

<210> 2343

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2343

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<210> 2344

<211> 779

<212> DNA

<213> Homo sapiens

<400> 2344

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<210> 2345

<211> 850

<212> DNA

<213> Homo sapiens

<400> 2345

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<210> 2346

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2346

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<210> 2347

<211> 832

<212> DNA

<213> Homo sapiens

<400> 2347

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<210> 2348

<211> 890

<212> DNA

<213> Homo sapiens

<400> 2348

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<210> 2349

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2349

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<210> 2350

<211> 891

<212> DNA

<213> Homo sapiens

<400> 2350

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<210> 2351

<211> 664

<212> DNA

<213> Homo sapiens

<400> 2351

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<210> 2352

<211> 800

<212> DNA

<213> Homo sapiens

<400> 2352

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<210> 2353

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2353

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<210> 2354

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2354

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<211> 777

<212> DNA

<213> Homo sapiens

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<210> 2356

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2356

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812

<210> 2357

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2357

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<210> 2358

<211> 695

<212> DNA

<213> Homo sapiens

<400> 2358

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<210> 2359

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2359

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<210> 2360

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2360

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<210> 2361

<211> 792

<212> DNA

<213> Homo sapiens

<400> 2361

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<210> 2362

<211> 916

<212> DNA

<213> Homo sapiens

<400> 2362

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tcaagcctgc tagaactctt ctttgaactt tttcgttgcc atgataaact tctgcgaaag  180
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<210> 2363

<211> 778

<212> DNA

<213> Homo sapiens

<400> 2363

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<210> 2364

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2364

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 catcctgaag actgcgaagg tgctggtgga ggacaccaag gtcctggtgc aaaacgcagc 180
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<210> 2365

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2365

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<210> 2366

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2366

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<210> 2367

<211> 871

<212> DNA

<213> Homo sapiens

<400> 2367

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<210> 2368

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2368

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<211> 821

<212> DNA

<213> Homo sapiens

<400> 2369

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<210> 2370

<211> 861

<212> DNA

<213> Homo sapiens

<400> 2370

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<210> 2371

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2371

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<210> 2372

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2372

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<210> 2373

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2373

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<210> 2374

<211> 785

<212> DNA

<213> Homo sapiens

<400> 2374

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 ccgcaagtct actctcacga cccacctgag gacccacaca ggagagaaac cgtatgaatg 720
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<210> 2375

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2375

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<210> 2376

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2376

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gagaccaggc ccgaaggaag ctatttcagc aagtactcgg aggcagctga gctgagaagc  180
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caggaggaag aagacaacga ataaacttcc ttnaaccag gaagcgtctt tgggtgcttg  720
gagaccaaga aaccaagaaa ttaacaactg aaagcatttt aatggactat ttantaaagn  780
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<210> 2377

<211> 723

<212> DNA

<213> Homo sapiens

<400> 2377

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gttgcctttt atgccattgt gtccttttct tgatgttttc aaagctggct gaatcctaca  180
caatatgtta cactcctaatt ctgcattttt taaatgcata ggccgtttta cttagcacag  240

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actattggcc tctgcttgaa gaatagtata cctataaact ggaagcatta tcatcactta 300
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<210> 2378

<211> 854

<212> DNA

<213> Homo sapiens

<400> 2378

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<210> 2379

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2379

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<210> 2380

<211> 830

<212> DNA

<213> Homo sapiens

<400> 2380

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tgcgccacag agatcgtcca actactggca acaccctcaa gtctggcttg tgttcagccc  360
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tcttcatggg gagaagatga gtcttgaaat atcaagacaa ttgcagaang ctgtgccctg  780
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<210> 2381

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2381

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<210> 2382

<211> 848

<212> DNA

<213> Homo sapiens

<400> 2382

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848

<210> 2383

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2383

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gtcttccttg cagacacaga tgggttgggt tcacctgcag ttcatgctg gtcaagcctg 780
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<210> 2384

<211> 881

<212> DNA

<213> Homo sapiens

<400> 2384

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<210> 2385

<211> 832

<212> DNA

<213> Homo sapiens

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<210> 2386

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2386

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<210> 2387

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2387

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<210> 2388

<211> 601

<212> DNA

<213> Homo sapiens

<400> 2388

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gatgactttg ccaagtcacc taaactctgg atctcagtca cttttgtcc tacattcctc  180
    
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<210> 2389

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2389

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 ggttcctgta tgtccactgg ttttagccga gcagtacaaa cacacagctc taaatttttt 660
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 ggaggaatta aagagt 736

<210> 2390

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2390

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gttaaagtat atcaagtgtg ctaaagaacc tggactaaat ggactaattc tganagagaa   660
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<210> 2391

<211> 687

<212> DNA

<213> Homo sapiens

<400> 2391

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaattg actcgcgcc tcgtccgccg   60
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agccagaaga aaatcaggtc ctggctcccc agaagcaaga gagttcaa at gaaggaagga   180
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<210> 2392

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2392

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 gcttattcca tatactttct acattatagc ctttcttttg ttactaaaa aggcatagtc 180
 actcgcaaat ctagtattga atacattcaa aatccattga agataaccaa ataagctttt 240
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<210> 2393

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2393

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cgtgttgtct ttacctgcca ggccacagcc aaccccgaga tcttgggcta caggtgggcc  180
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gctgtgaggg gtgacgggtg caaggtggag tgtttcattg ggagcacacc acccccagac  720
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tgagaggac caacttaggc a                                         801

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<210> 2394

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2394

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gaaaccatgg tcaggtgggc tcttacctgt taaaatcagg agctgacaaa gaaaagttgg   60

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 gaaactcagg atgacgatac ctaagactga aagaaaatac tttaccata gaaaatgaaa 780
 gtggtaaaat acatttgctg gtactctgga nacagtgcata acccggtcat gaaactgggt 840
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<210> 2395

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2395

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 atcgtcttcc agcacatccg ctgtcctgga gagcatcgac gaggacgacg actactactt 720
 caaccttcag caagtncact cggaaagaag ttggcangac aaagttcatt ccacgcnagg 780
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<210> 2396

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2396

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 atgggaaaga gatcacattc ttggaatact acagcaaaaa ttatgggac acagttaagg 180
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 agaagatagc cggccccatt ggcattgcgtg tgagcccacc cggcctgggt tgaactaaag 720
 gatgaccga attgagactt atgtcagaac cattcaatcc acgttaggag ctnangggaa 780
 aatccn 786

<210> 2397

<211> 838

<212> DNA

<213> Homo sapiens

<400> 2397

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tatatgaaga ggctgaggct gacaacgaag aaagcgacaa ggactcattg aatgaaatgt 180
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gatgtatata tcagatggta aagtcattctt attctcttgg nctaancaag agttctaagt 780
taagagtggg ttttggtttc tttggaaaat catcttggct ctcaatcttg ggtgnccc 838

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<210> 2398

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2398

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cccaggaccg ggacttcate atgacctica acacatccct gcaccgctcc tggatggatgg 240
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<210> 2399

<211> 803

<212> DNA

<213> Homo sapiens

<400> 2399

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ttggataatt aagaaagcng attanatgcc catggtcaac aaggaagttg actgnatggc 780
tgctaagtta gattcaaaac atc 803

<210> 2400

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2400

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tcaggaaatc ttacctgtat tccttaacgc caatagaaac tggaattctc cagttgctaa 180
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aaggttgagc ttttaggtt ggcctctttg gnttcccaag gttaagncag atctagagtc 840
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<210> 2401

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2401

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<210> 2402

<211> 898

<212> DNA

<213> Homo sapiens

<400> 2402

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<210> 2403

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2403

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<210> 2404

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2404

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<210> 2405

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2405

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ggagaactac ttgaaagaga aacaactatg tgatgtgcta ctgattgcag gacacctccg  180

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 ggtggggcat gatgtgcaga ataggcaagg agaactgggg atgctgcttt cttacatcan 720
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<210> 2406

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2406

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<210> 2407

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2407

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aagttgagt agcccgccgn aacgtntcag aactgaggca atgctgtctg aaaaaactga 780
tgacagccaa ctttgaacta agatcncgac gctg 814

<210> 2408

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2408

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<210> 2409

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2409

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<210> 2410

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2410

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<210> 2411

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2411

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<210> 2412

<211> 831

<212> DNA

<213> Homo sapiens

<400> 2412

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ccgctacca gagcccatga ctccagacac tatgattaaa ctatatagga agaaggcttg 300
gcctacatct ggatgccaac accagatatg agcaccgaag gccgagtaca gatgctgccc 360

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caggcgggtgt gcctgctgca tgcgctgctg gagaagggac acatcgtgta cgtgcactgc 420
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<210> 2413

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2413

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 cgtccttggc cttgnccaaa acatgaatgt tttccagtgg tccaaaatgt aaacacaaaa 720
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<210> 2414

<211> 841

<212> DNA

<213> Homo sapiens

<400> 2414

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<210> 2415

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2415

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<210> 2416

<211> 638

<212> DNA

<213> Homo sapiens

<400> 2416

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<210> 2417

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2417

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<210> 2418

<211> 734

<212> DNA

<213> Homo sapiens

<400> 2418

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<210> 2419

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2419

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<210> 2420

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2420

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<210> 2421

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2421

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<210> 2422

<211> 856

<212> DNA

<213> Homo sapiens

<400> 2422

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<210> 2423

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2423

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<210> 2424

<211> 822

<212> DNA

<213> Homo sapiens

<400> 2424

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attattatatt caaaggaatt gtttgaaacc aaacatgtta tccagtaatg gagcctctaa  180
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<210> 2425

<211> 859

<212> DNA

<213> Homo sapiens

<400> 2425

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tgcccctttg gccgcagtgc cattgagctc accaaaatgc tctgtgaaat cctgcaggtt  180
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<210> 2426

<211> 812

<212> DNA

<213> Homo sapiens

<400> 2426

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 tgaagaagac caaccagggt cctgtgggtg aaacactcct gtgccagctg agctcatatg 180
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<210> 2427

<211> 884

<212> DNA

<213> Homo sapiens

<400> 2427

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<210> 2428

<211> 706

<212> DNA

<213> Homo sapiens

<400> 2428

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<210> 2429

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2429

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accctgatga caaatctgca caacaccaca atgcacacca ctgcttagag attacagtaa 480
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 atcatattca tcatggacgt gatgntgggt nggtcacatt tgatcatggc atgggggtact 780
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<210> 2430

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2430

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 tttggcagca cggcagagag gatgaggcan gagggtgccg cgagccagga cgcggcctgg 660
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<210> 2431

<211> 882

<212> DNA

<213> Homo sapiens

<400> 2431

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<210> 2432

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2432

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gttaaggcta ttatataaat ttatttttta aaagacataa acctacattt tcagaagaag 180

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<210> 2433

<211> 852

<212> DNA

<213> Homo sapiens

<400> 2433

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ggcaagctnt gg 852

<210> 2434

<211> 785

<212> DNA

<213> Homo sapiens

<400> 2434

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<210> 2435

<211> 779

<212> DNA

<213> Homo sapiens

<400> 2435

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<210> 2436

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2436

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<210> 2437

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2437

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<210> 2438

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2438

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cacgttattc gtcattgctt aaatgcctgt atccagaggg cagtgagaga ctttcagagg  720
accaggagga agaagaccga aagggagaag gagaatggng actggtcttg gacaaaacac  780
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<210> 2439

<211> 705

<212> DNA

<213> Homo sapiens

<400> 2439

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ttgttatgtc tgccagatgg tcagtattct gacagtgtgg gacaaaggaa aaacggcagc   60
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tgtagtccta gcttctcagg aggctgaggc aggaggctct cttgagcccg ggaggacaag  180
gctgcagtga gccatgacca tgccactgca ctcagcctgg gcaacagagt gagaccctgt  240

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ctcaagaaag aaaaacgaga aaggagagt ccctccactg taaggagatc gggttcatta 300
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cttgatggg gaggatttcc ctccagcctt gtatggggag gatttccctt gtatggggag 480
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cactgaggga ttacggcag cagcctctgc acggcttccc acgaccttcc cagctgcttg 600
ctggacgctg ctggagaaac agcacatncc aagatcatca tggccccagc atnctcttga 660
acttantaac agttggcctg acagatgaac cggatatcat ccctg 705

<210> 2440

<211> 728

<212> DNA

<213> Homo sapiens

<400> 2440

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aggctccatg agcagatgaa gtagacagct ttactcagta tctcagacca agaacttcat 180
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gaacaacccg aactagtttt tgttctgcc agtgcaagca cctggtggac ctattctgga 540
caatggatgt atgaaagggt gtggtatcca caagcagaag tacagaatca ctctacttcc 600
tcctatcgta aagtgacttg gcactgggaa gccatcatgg aagctcaagg nctatccttt 660
gctcaagtaa nggtattgga gggaaatttt tctctttgcg tagaaaataa aaatggcagt 720
ggaccctt 728

<210> 2441

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2441

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gctagcgaat aaccttaaag aggagggtca taatcttggg ctgctccatg gggatatgga   60
tcagagttag agaaacaagg tcatttcaga ctttaagaaa aaggacatcc cagtcctggt  120
ggccacagat gttgcagccc gtggtctgga cattccttca attaagactg tcattaacta  180
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tgagaaagggt gtggcctata ccctactcac tccaaggag agcaattttg ctggtgacct  300
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gcagaatgcc tggtttcgga aatctcgatt caaaggaggg aaaggaaaaa agctgaacat  420
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agatcgacta acggcaatga aagcagcttt ccagtcacag tacaagagtc actttgttgc  600
agccagttta agtaatcaga agctggaagt tctgctgctg gggcaaagt ggtggactag  660
tgcaggagac ttgaattctg gtccaactac tcancacaac agggccataa cagtcctgac  720
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<210> 2442

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2442

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ggcagagacg agaagagagg aggggaggcc tcctccgccg ccgccatctt ggaccgggcc   60
cggtcagctt ccgcggagcc atcggcagac gccgcggcct cccttgagcc ccgacccccg  120
tcgtcagaac aaccccgggc ccaactcccc aaccccaatt ccgcttcgcg ccgctatcgc  180

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gatagcgcgc gggcccgggg cgcgagaaaa aggcggcggg cgctcgcctc ccccgccctgt 240
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 ctccacaatg cagccaacgc gaaccagaaa gaaaagtatg aggctgacct aaagaaggag 480
 attaagaagc tacaacggct gagggaccaa atcaagacat gggtagcgtc caacgagatc 540
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 aaagttgtgg aacgagagac caaaaccaa gcttacagca aaagagggcc tgggcctgcc 660
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<210> 2443

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2443

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 catctagggg actgccatgg tgtacgatgg gaagtccagt ctggagagtc caaccagatg 180
 gtccacatga atgtcctcat cacctgtgtc tttgctgctt ttgttttggg ggcattcatt 240
 gcaggtgtgg cagtatactg ctatcgagac atgtttgttc ggaaaaacag aaagatccat 300
 aaagatgcag agtccgcca gtcatgcaca gactccagtg gaagttttgc caaactgaat 360
 ggtctctttg acagccctgt caaggaatac caacagaata ttgattctcc taaactgtat 420
 agtaacctgc taaccagtcg gaaagagcta ccaccaatg gagatactaa atccatggta 480
 atggaccatc gagggcaacc tccagagttg gctgctcttc ccactcctga gtctacaccc 540
 gtgcttcacc agaagaccct gcaggccatg aagagccact cagaaaaggc ccatggccat 600
 ggagcttcaa ggaaagaaac ccctcaattt tttccgtcta gtccgncacc tnattcccca 660
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cgtcttt

727

<210> 2444

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2444

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cagtacacaa atgcatgagt atgtttatac agtgtagac tgatgtgaat ttgcatttgt 60
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aaatgcctgt atacctatgt gtgcagcagt aaaaaattag tgagaaaaag caactttttg 180
tcactcttag gaaatatttt gtcttattag tgttcttggc acatgtatat tactaaagta 240
gataattcca atgagaaata ctaccagatt attgttataa aattaattta caatgtccct 300
gatattgagc taactcttaa aaaaaccaa caaaactcgt atctgagtgt aactttgcc 360
atattttaaa agccaaaata ttctctggac acaaatttg tattgctcag ggacagtta 420
ccttgccctgg taaaccttcc caaacagaaa tatagctata ctatctttgg ttttgTTTT 480
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ctcagctccc tgagtaactg gaattacagg tgcacgccac cacgcccggc taatttttgt 660
gttttttagca gagacagggt ttcaccacgt tggccagggt ggtcttggac tcctgacctc 720
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<210> 2445

<211> 373

<212> DNA

<213> Homo sapiens

<400> 2445

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 aatggccatt ttttgtgtgt ccctctctct catcttatgc ttcccttctt ttttttattt 180
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 tagctgggac tacaggcgcc cgccaccacg cccggctaata tttttttttt ttttttggan 360
 ttttangaaa ngc 373

<210> 2446

<211> 869

<212> DNA

<213> Homo sapiens

<400> 2446

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 gccgcgcgga cctccgtctt ccttgtccgc gtgggcccgg gcgcaggcga gagtccaggg 180
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 gtgaaaatat gggatgtaga gacaaaaaca gttgtgacag aacatgcact ccatcagcat 360
 acgatatcaa cactacattg gtctcctcga gtaaaggact taatagtatc tggggatgaa 420
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 gtancacaag cttcagtaac aaaaagggtg ctacttaacc actggaagca aagatcaaac 780
 cattcgaatc ttggagctgg tctaaaaggc ccagggggtg atgaattttg gaaattggcc 840
 cttttttgaa anaanaanaa ggaggggggt 869

<210> 2447

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2447

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aagggttggc tgcgcgtgcg gcgggagtag aggcgccttg cgcaccagga agtgactgtt   60
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agaggattta ttggttacga aggaagggtg atttcagtgt gttctttgga tggcaggcct  180
taagagaaga gtcccactgc acagcctcag atacttcac tccatggtgg gtctcttctc  240
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gggcacagta tgtaaggag atttcacccg tgtgatagcc acgaaatgtc agaaaggaca  360
aaaaagtcag aagaaaccaa gccatcttgg accactagat ggttcctggc aggaaaggct  420
ggctgatgtt gtgacaccac tctggagggt gagctatgaa gaacagctca aggtgaaatt  480
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accctctcct gtcatcaatg gttaccgaaa taagtccacc ttctctgtga accgaggtcc  660
anatggcaat ccaaagactg tggggttcta cctgggaact tggagagatg ggaaccttgc  720
tgngngcagt ctaatcatct gaaaaacatc cttgagaaac acagtcaant gggc       774

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<210> 2448

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2448

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ctattttggg gacagaagaa gaacttagta gatgcattga ggatgtgttt aaggtgtacg   60
tggttgggaa tgaaccttta acagttttga tggattccct gcttcagtc ctgggagtgc  120

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tttttcttct ctactgtttt actaagcaga gtgtgtctca cataaggtca ctttgccaag 180
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 gatttgcagg gttggacaaa gctgtgccct ctctccattc tctgtgtcag tttagagttg 300
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 tgtcccaactg ccaggaatgc ggtttggcag gagacttctt catcttctgt ttgaaagagt 480
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 gcctcttggga attagagcaa catcagactc ttcttgtgga aggccaagag cggaagctgc 600
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<210> 2449

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2449

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 cgccaccccg acaagacggc cctgatcttc gagggcacag ataccactg gaccttccgc 180
 cagctggatg agtactcaag cagtgtagcc aacttccctgc aggcccgggg cctggcctcg 240
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 acattcngca ccacagggtg tgccaaaggc cgnctcgtg gtgcacagca ngattaccg 660
 catggcttgc cctgg 675

<210> 2450

<211> 899

<212> DNA

<213> Homo sapiens

<400> 2450

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tctcttttca agttcgaatc gtcctcccat gccatcagta tgagcgccta tctgcgagaa 180
cagagaaggg agctctatag tcggagtggg gaactgcaag ggggtcctga tgacaactta 240
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gcaaaagatg atgatatcag cagactcttg aaatctctac caaactggat gaatatggct 780
caaccaaca gcttgaggnc caaaagagag gaggaagaag attcataagg gcagcttttg 840
gcaaggagtc tgaagtctta ttgggaacct gggggataaa ttaatccctc ccaaganat 899
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<210> 2451

<211> 889

<212> DNA

<213> Homo sapiens

<400> 2451

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 cccagcccgg gtgggaaaaa agggaaagaa ggaggtgatg gcggagtttt cggacgctgt 180
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 tcacgtctcc actttaagga aaattctgtt tgaagatttc cggtcctggc tttctgatat 480
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 ggttccttcc tgggacagga gcatgggtgg taccctggac ctgtacagca tagatgaaca 660
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 tttgctataa gtggctgggt catggnccat tattgcttcg gcttcccact cttttgaacc 840
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<210> 2452

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2452

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catcatcacc ttccacaacg aggcccgtc cacgctgctc aggaccatcc gcagtgtatt 480
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acggcaaggt ctgggtccgt cccggattcg gggcgctgac atcgnccagg gcaccactct 660
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ggtcaaagag gactacacgc 740

<210> 2453

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2453

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aacaaaatcc acaaatgggtg tgaactaata tgctggctgc taccttgcac aaattaatga 180
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ccatgtgcac agnacacacg tgcagtgcac acaagaaaat gacatggaaa tagatgcagg 780
caggctggtc cctgctgnga ttacagagta acttcaagt 819

<210> 2454

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2454

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aagaagcagg ctgtcgattt attaaccttc agccttcgac actgaccgat aagtggatatg  180
gagaatctca gaaattggct gctgctgtct tctcccttgc cataaagcta caaccatcca  240
tcatctttat agatgaaata gactcctttc tacgaaaccg ttcaagttct gaccatgaag  300
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gctgccagggt catagtaatg ggagctacca atcgtcctca ggaccttgac tcggctataa  420
tgagaagaat gcctacnaga tttcatatca accagcctgc tttaaacag agagaagcaa  480
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cccaggaaac tgatgggttt tcaggaagtg acctaaaaga gatgtgtcga gatgctgccc  600
ttctctgtgt tagagaatat gntaattcta catcagaaga aagccatgac naagatgaaa  660
ttcggcctgg tcaacagcag gacctgcac gggcaattga aaagatgaag aaatcaaagg  720
gtgcagcatt tcagaatggt ttaacccatg gtttgggtta naattaagag taaagaacat  780
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```

<210> 2455

<211> 794

<212> DNA

<213> Homo sapiens

<400> 2455

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tcgtgaagaa aacagaggct cttcggttgc agtatcgcta cttagacttg cgtagtttcc  120
aaatgcagta taacctgcga ctgagggtccc agatgggtcat gaaaatgcgg gaatatctct  180
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<210> 2456

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2456

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 ancacactcc anaaacacna atcttctctc tcttttacc ttttatagaa cccagattac 660

taccgatttc tccatctanc ggaacaacng ttgactctgt ggtggggatt ttcctgtgat 720
ngggatnaaa cccnaaacc 739

<210> 2457

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2457

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aaacaccaag aacccgattt cnaatggctg ttctcatngg gccanctcta tgttgtaggt 720
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<210> 2458

<211> 875

<212> DNA

<213> Homo sapiens

<400> 2458

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<210> 2459

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2459

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<210> 2460

<211> 949

<212> DNA

<213> Homo sapiens

<400> 2460

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<210> 2461

<211> 614

<212> DNA

<213> Homo sapiens

<400> 2461

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<210> 2462

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2462

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<210> 2463

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2463

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 ggcaatttgc agcatttcta gtggtactgc tccacatttt acagctttat gaagaagggtg 180
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 gcaatctggc tttgtctgtg aatgtccctg ttatantaag tctgtccaaa aattgttaag 780

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821

<210> 2464

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2464

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795

<210> 2465

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2465

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<210> 2466

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2466

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<210> 2467

<211> 716

<212> DNA

<213> Homo sapiens

<400> 2467

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<210> 2468

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2468

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<210> 2469

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2469

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570

<210> 2470

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2470

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738

<210> 2471

<211> 842

<212> DNA

<213> Homo sapiens

<400> 2471

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 gcccttccag aagaataccg agattatatt ntgcgaaatt tacatgatgc cttatcagga 660
 catacttcca acaatattta cgaaggcagt ccantattct ganaaaaacc tcacaaagtg 720
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<210> 2472

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2472

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<210> 2473

<211> 881

<212> DNA

<213> Homo sapiens

<400> 2473

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<210> 2474

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2474

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<210> 2475

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2475

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<210> 2476

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2476

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<210> 2477

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2477

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<210> 2478

<211> 423

<212> DNA

<213> Homo sapiens

<400> 2478

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<210> 2479

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2479

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<210> 2480

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2480

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<210> 2481

<211> 877

<212> DNA

<213> Homo sapiens

<400> 2481

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<210> 2482

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2482

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<210> 2483

<211> 894

<212> DNA

<213> Homo sapiens

<400> 2483

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<210> 2484

<211> 873

<212> DNA

<213> Homo sapiens

<400> 2484

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<210> 2485

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2485

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<210> 2486

<211> 795

<212> DNA

<213> Homo sapiens

<400> 2486

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<210> 2487

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2487

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<210> 2488

<211> 892

<212> DNA

<213> Homo sapiens

<400> 2488

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<210> 2489

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2489

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 tgtgccggcc cncangcaga cactgctgtt cacgcncgc tgaccgacac actccgggag 600
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<210> 2490

<211> 490

<212> DNA

<213> Homo sapiens

<400> 2490

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tcagcgatga acacggcatc caccggcccg gaggtacgt gggagactcg gcgctgcagc    180
tggagagaat caacgtctac tacaatgagt catcgtctca cgaaatatgt gcccacggcc    240
gccctggtgg acttagaacc acgcaccatg gacagcgtgc ggtctgggcc ttttgggcag    300
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gggcctacac ggaaggcgcg gaactggtgg accnatgctg gacgttgtgc ggaaagatgc    420
gaacactgcg actgcctgca gggcttcng ctcaccact ccctnggcgg cggngccngg    480
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<210> 2491

<211> 585

<212> DNA

<213> Homo sapiens

<400> 2491

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aggggaaatg ttctaagcag agcccgtcag gagccacagg gacacathtt ggagatgaca    60
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acctcgccct ctcgaaagag gatccggcca gcagaattta tgcaaaggaa gcctcgaggc    180
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anagggtccc tgccggcacg tcgccctgca gcacatacct ttcctttttc tccaccccg    420
cggaactggn agggcctgag tctctgccct cgtgggcgtt gaggtagact gattctcgcg    480

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tgtctccggn ctctccggca tggaatccta ccgcanactt tgcggttcat ggaagagtct 540
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<210> 2492

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2492

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ttaggagatg atgccttggt gcaggtctat ccagatggca tccggcacat acgagcagac 180
aagagagtca atgagtggaa gacccttgga aagaaaacaa ttgtgaagtg tgcagtgaac 240
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gcaggctctc ccagcccagc ctgaagtcct tgtgtatcgt ggaaatgggt gggactgaga 540
agcaggatga gctgggggtga gaagggtctg attggcttcc tatacctgaa tattgggcta 600
cagaacgggg ntggtgntga gggaacnttt ccccccnnc ccccc 646

<210> 2493

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2493

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tccgtctgag gcgggaggca tcggctctgc tgctgcggag ccccgccctg cccgcccggg 120

agctgtcggc cccggcccga ctctatcaca agaaggtagg gacaaaagag gggacgcgcg 180
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 gactgggagc tgtcccctcc cacgtctttg ccctgactcg ctttcccttg ctgcgcagtg 300
 aggctcactg caactgataa acaacagtta ccgctcatcg ggcggcgact tccagggggc 360
 cccgccgctg gccgcgactt cgtgcgtccc aattttaaat tcgccaacag cccaggangc 420
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 ccggcttcag ccactccgct gcccttggcc agatgacctt gggctagtca ctgcgcctct 540
 ctgaacctgt ttcccaaggt gtaaattggg ggctctcagc tgtcccttac aaangatact 600
 gtgcgttga gtcctggcat cngttcccc ccccatgtt tttttncn aagaaaattg 660
 ttttcttgtt actgnttta 679

<210> 2494

<211> 521

<212> DNA

<213> Homo sapiens

<400> 2494

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 tcagcctggc agctccgagg cagtctcacc tggagacatg gatgcagggt ctgccagctg 180
 ggggtgctgtg tcttcattga atgatgtgtc aaatcacaca ctttcttttag gaccagtacc 240
 tgggtgctgta gtttattcga gttcatctgt acctgataaa tcanaaccat caccacaaaa 300
 ggatcaagcc ctangtgatg gcatcgctcc tccacagaaa gttcttttcc catctgagaa 360
 gatntgtctt angtggcaac aaactcatng agttggagct gggctccaga atttgggcaa 420
 tacctgtttt gccaatgcac acngcantgt ttaacctaca caccaccctc ttgccaatta 480
 cctgcnatca catgaacncc cncaaaatat gtcctgcaca a 521

<210> 2495

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2495

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tcaccccccg aaatgctaata cccacttcc gacctctca ggccttttcc gcttctcttt  180
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gattgtcgat tagaagatcc tgatggtaaa gtgttatacc aaagagatga agaaacagta  660
tgatagtttt accttcnca cctccaaaaa tggggacata caaatTTTgc ttcancaatg  720
aattttctac tttcacacat aaaaatgtat atttttgatt ttcaaattgg aaaaaaac  780
aaccttttgt ttcctaattg aaaaaacgaa ttcatTgctc tttacccaaa antggaaatc  840
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<210> 2496

<211> 868

<212> DNA

<213> Homo sapiens

<400> 2496

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ctttattccg tccctgagct cttctagcaa gttgttttgg agttgactac gcagtgacga  180

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cggagattac ccagtcaact atttttgaac gctgaaaggg aaaatcacct ttaaattgaa 240
 aagataattt tcagaagana ttgactgta tttgtgctc ctcagcattc atgcaaaggt 300
 gttcgcggag tacagaaacg gagtatgatg actggacttc tctgttctct ttcaggttta 360
 ttaatgccag aagaagaata gtacagccca tgattgacca gtcaaatcga gcagtgagcc 420
 aaggagcagc atatagtcca gagggtcagc ccatggggag ctttgtgttg gatggtcagc 480
 aacacatggg gatccggcct gcangtttgc anancatgcc aggggactac gtttctcang 540
 gtggctctat gggaatgant atggcacagc caagttacac tcctccccag atgaccacaca 600
 ccctactcaa ttaagacatg gacccccaat gcattcatat ttgccaagcc atccccacca 660
 cccancccat gatgatgcac gggangaccc ctacccccct ggaaatgact atgtcagcac 720
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 cattccatgc cccattnatt ttaagggga actccccggg ggaaaaaggn anaccccccc 840
 ccaanaactt atttttaaaa aanttcct 868

<210> 2497

<211> 778

<212> DNA

<213> Homo sapiens

<400> 2497

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 tgacagatta ccagttggtc tcccctgcca agaatccctc cagtctcttc tcaaaggaag 180
 cacccaagag aaaggcacaa gctgtttcag aagaagagga ggaggaggag ggaaagtcta 240
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 gtaccagaa agaatttgaa gtgaaagatc ctgagctgga ggcccaggga gatgacatgg 360
 tttgtgatga tccggaggct ggggagatga catcagaaaa cctggtccaa actgctccaa 420
 aaaagaanaa aaataaaggg aaaaaagggt tggagccttc tcagancact gctgccaaagg 480
 tgcccaaaaa agcgaagaca tggattcctg aagttcatga tcagaaagca gatgtgtcng 540
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ctgcacccac accaatccna gccctgacct tggcacctgc catccgtgac aaactggaca 660
 tccttggggc tgctgaaaca ggaantggga aaactcttgc cttttgccat cccaatgaat 720
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<210> 2498

<211> 714

<212> DNA

<213> Homo sapiens

<400> 2498

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 gaccttcttc ttcttcaggc cctggacgtt ancggacaaa ttcccgggga catccgttgg 660
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<210> 2499

<211> 596

<212> DNA

<213> Homo sapiens

<400> 2499

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 ggcctgggcc gtcagctact acatccggtt cttcatcacc tacatccctt tctacggcat 120
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 gtggctggac gcctaccttc acaaatnaag ccacngcccc cgggacactg tggggaaagg 540
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<210> 2500

<211> 651

<212> DNA

<213> Homo sapiens

<400> 2500

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 atctgccgga actaccgtgg cgacgtggac atgtcagagg tggagcactt catgcccac 180
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 acgcggtgtc cttggcggtc cgaaggcatc aagttatccg aagaaatgan gttgttcttn 600
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<210> 2501

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2501

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gtcattaccc anacagcca ggctttacct accactgagg taaccaatac tcaggcttct  180
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caggctcctaa agctaccagt catctcacan aatattcacg ctccaattgc caatgantca  360
gccagttccc aanccttgat aacctctatc aagcctaaaa aagcttccaa ggctaaaaag  420
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<210> 2502

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2502

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 agcgcctgcc tcaagctacc gcccgganan ggaccogant 460

<210> 2503

<211> 439

<212> DNA

<213> Homo sapiens

<400> 2503

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 cgcacacgct gcgccggaag tgtgaactgt ctgcctccag gctttgtcat ggcggctgct 180
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<210> 2504

<211> 928

<212> DNA

<213> Homo sapiens

<400> 2504

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 cagctcaaac ctgaaagacg attacagcac tgcacagana ataacataca aatactacgt 660
 tggacgcaag gctatgtttg acagccgatt ttaagcaagc tgaagaatac ctgtcatttg 720
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<210> 2505

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2505

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<210> 2506

<211> 451

<212> DNA

<213> Homo sapiens

<400> 2506

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<210> 2507

<211> 827

<212> DNA

<213> Homo sapiens

<400> 2507

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 gacttgcctt acacagtttc ttgaagacna ntaccagac atgcccactg aaggcataaa 480
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<210> 2508

<211> 501

<212> DNA

<213> Homo sapiens

<400> 2508

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<210> 2509

<211> 662

<212> DNA

<213> Homo sapiens

<400> 2509

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<210> 2510

<211> 581

<212> DNA

<213> Homo sapiens

<400> 2510

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acacctaaa gtaccttttc atcttctctg tggccaacat gaggaacagc aagctgaagg 180
acatccggaa cgcctggaag cacagccgga tgttctttgg caaaaacaag gtgatgatgg 240
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ggttgagggg tgaggtgggt ctcctgttca ccaaccgcac aaaggaggag gtgaatgagt 360
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 tgagcctgga tccagggccc ctggagcagt tccccactc catggagcca cagctcaggc 480
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<210> 2511

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2511

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 aagacaagat ggtcagattt gttatcctag tgggttacia tccaaaatac tctggagcat 180
 gctgagatta aggtggttgc caaggaaca gaaaacagcc atgagttaat aaatcaagac 240
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 ataggtgcag aacccatctg gacacggana ccaggaatgg agttccatgg aggcctggct 360
 ggcactgcac ccgggcatga ngacacatcc antaagaaga cctgcctcaa gaggtgcact 420
 gcggtgacca gtggaggtga ctggttggan cctggaattg gaagcagatt ccaagctctg 480
 gtggacaaac tctccangcc tgggtgggaat cncagctggg gcagacctca tcctgnctgc 540
 ctggccacaa gccccactc tctgccactg gtggtagacc atgcctgtgt gganantctg 600
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<210> 2512

<211> 711

<212> DNA

<213> Homo sapiens

<400> 2512

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 gtacagagac agctgcattg ttgtggaatt cacaactact cagactggga aaatacagat 600
 tggttcaaag aaacaaaaaa ccanantgtc ctcttagctg ctgcagaaan actgccanca 660
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<210> 2513

<211> 794

<212> DNA

<213> Homo sapiens

<400> 2513

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 tcagcacgtg tattgaaatc ctgctggtag tgtatgacaa cgtcctcaag gatgccgtag 180
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 ccttgatat gtgtcccggtg cccgtccctg catcccttag catgcatatg gccattgcag 480
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 aggnatccc tgaaaaacct tggaacgtgg gaaggtctgt gctcctttta aaataaaaact 720
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 cgttctggcc ncnt 794

<210> 2514

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2514

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 aagangccct cgggtggtgcc catggctggc caggatcctg cgctgagcac gagtcacccg 180
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 ctgctggagt atttgaagta cacactggac caatacgttg agaacgatta taccatcgtc 360
 tatttccact acgggctgaa cagccggaac aagccttccc tgggctggct ccagancgca 420
 tacaaggaag ttcgatagga aagacgggga tctcactatg tggcccangc tggctctgaa 480
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 gaagaacttg aangccctct acgtggtgca cccaccagct tcatacaagg cctgtggaac 600
 atcttgaaac cctcatcag tcacaanttt gggaaaaaaa tctctatttc aactacctga 660
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<210> 2515

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2515

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aaaaaaaaagc ccgagtgcag ccgccgggcg caggatggga tccggctcct ccagctaccg   60
gccaaggcc aictacctgg acatcgatgg acgcattcag aaggtaatct tcagcaagta  120
ctgcaactcc agcgacatca tggacctgtt ctgcatcgcc accggcctgc ctcggaacac  180
gaccatctcc ctgctgacca ccgacgacgc catggtctcc atcgacccca ccatgcccgc  240
gaattcagaa cgcactccgt acaaagtgag acctgtggcc atcaagcaac tctccgagag  300
agaagaatta atccagagcg tgctggcgca ggttcgagag cagttctcaa gagcattcaa  360
aatcaatgaa ctgaaagctg aagttgcaaa tcacttggct gtcctagaga aacgcgtgga  420
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ggaggagctg gcggccggaa gcagcaggac caactgcccc tgtaagtaca gttttttgga  540
taaccacaag aagttgactc ctcgacgca tgttcccact taccccaagt acctgctctc  600
tccagagacc atcgangccc tgcggaagcc ganccttgac gtctggcttt gggancccaa  660
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<210> 2516

<211> 748

<212> DNA

<213> Homo sapiens

<400> 2516

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ttctgtgcta tggctctggc tgacttcngg gcgcgtgtgg tacgcgtgga ccggcccggc  180
tcccgctacg acgtgagccg ctggggccgg ggcaagcgct cgctagtgtt ggacctgaag  240
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cccttccgcc gcggtgtcat ggagaaactc cagctgggcc cagagattct gcagcgggaa  360
aatccaaggc ttatttatgc cagnctnagt ggatttgggc agtcaggaag cttctgccgg  420
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agtggtgaga atccgtatgc cccgctgaat ctccctggctg actttgctgg tggtaggcctt 540
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 gtcattgatg caaatatggt ggaaagaacn gcatatttaa gttcttttct gtggaaaact 660
 canaaatcna antctgtggg gaacacctcc aaggacanaa catgttggat ggttggaaca 720
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<210> 2517

<211> 847

<212> DNA

<213> Homo sapiens

<400> 2517

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 ttcagccgtc ttctcctat gccacgtgct ctaccagaa ctgcagcaaa actgcatttt 180
 atgtcctgtg tctaaagcta aacacatggt cctgtctact ttgctttgt tcctgtttcc 240
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 aaggaagcat ctgccgcttg gctgatttaa gaattgtgct gaattcctgc cccatcttgt 780
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<210> 2518

<211> 840

<212> DNA

<213> Homo sapiens

<400> 2518

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ttaaccattt tcaggtgtgt gggttcagtgg ccttgggtac agaccagtg ttacacagcc  180
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ctgctgccct gcggggccca tgcactgcaa acccgctgn ctcaaactgt tgcctgcgtt  780
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<210> 2519

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2519

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cacagggtct tgccccctct ccggggcctg tgccagctcc cttccccccc cgttgtcctg  180

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tccccacagc cattctggga gctggggaac ctggtctcaa ggcaggccct gcagttccac 240
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 caggaattct acacttgcaa cctcgggcac tgtnggggaa ttgcattgcc ttggggcctc 720
 ttgggttggg gaaccatgga acaggccctg ggtccctttt cctaaccctt tgttcnggga 780
 aaaaaggtn ccaaaaaaga atttcttggc cnggttnggg naaaag 826

<210> 2520

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2520

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697

<210> 2521

<211> 853

<212> DNA

<213> Homo sapiens

<400> 2521

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taccctgtta gagctgaggc gcaggtaaaa tgactggccc aggccggtcc caccctgtaa	180
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gaagcatttc atcaataacc tctgtttgca tctaccctgc tgaacctgaa aacaagcnga	780
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<210> 2522

<211> 784

<212> DNA

<213> Homo sapiens

<400> 2522

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tatcataaaa aagaaaccaa atcaagctaa aaaaggcctt ggggccaaaa aaggaagttt 180
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gaaaaccaca gggctattca gacagaccta ctgctcgccg caaagcccag attatgaacc 720
canttgaana ttacagatga aggccnanaa anaaatttgg gcaatgttca agggccattt 780
cntc 784

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<210> 2523

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2523

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gaagctgagc taaggaaaca gaggcttgaa gaactaaaac agcagcagaa acttgacagg 420

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cagaaggaac tagaaaagaa aagaaaactt gaaactaatc ctgatattaa gccatcaaat 480
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 aaaagncatt gtccaaantg ganaaaaaaa 690

<210> 2524

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2524

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 taagcatgca ttgatggaaa cttc 684

<210> 2525

<211> 843

<212> DNA

<213> Homo sapiens

<400> 2525

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ctctggagcc gcgactgccc ggggttgtgc cggccgccgc tgccgcccag gccgcctcag 60
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gatgaaccac cagaaggttc aatgaaagat caccacagc agcagccagg catgttgtcc 240
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gaangttctc ataccttaag ttccaagggt tttatcttgg taaaatgtta cccttactcc 720
ggttggttaac tgaaaaaaat ggtatgtttt gaaataattt aataaaaant ctttcnagtt 780
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cca 843

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<210> 2526

<211> 293

<212> DNA

<213> Homo sapiens

<400> 2526

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accatnccat gacttcccac cgcgccctcg ctccacctc cccacacctc tctctcagtc 60
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atgacacccc ctccctgtc ctccccaac tccccagctc caagagtgga agaaatcccc 180
aagatcatct gggctctcct ctccnaacc agaactgagg ctnggatatc ttctncnaca 240
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<210> 2527

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2527

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agcagggagg aagacaggca atccctccgg ctgtccgacc aagagaggcc ggccgagccc 60
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tcctgggagg aagangcagc tacggcggcg gcggcgggtg cggctanggc ggcggcgaat 180
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aangaattga atgatctggc acgggaccct ccancacagt gttcaacaag tcctgttggg 480
aaatgatatg ttccattggg caagcttaca ataattgggg nccaatnaac agtcctatc 540
anggtngaat tttttcttg acnattc 567

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<210> 2528

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2528

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tacactttca aagatcggtc acattcaggc cgtgtggctc aaggcatcat gaaactgtgt 180
ctagaggagg agctctttgc tgatgtcacc atttcggtgg aaggccggga gtttcagctc 240
catcggctgg tcctctcagc tcagagctgc ttcttccgat ccatgttcac ttccaacctg 300

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aaggaggccc acaaccgggt gattgtgctg caggatgtca gcgagtctgt tttccagctc 360
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 tatgaggtgt cagacatgta tcanctgaca tctctctttg aggaatgctc tcggtttttg 480
 gcccgcacag tgcaagtggg aaactgcctt cangtgatgt ggctggcana tcggcacagt 540
 gacctgaac tctatacggg tgccaagcac tgtgccaaga cccaccttgg cccagctgc 600
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 atgganttcc gtgtttctc 679

<210> 2529

<211> 654

<212> DNA

<213> Homo sapiens

<400> 2529

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 gaaaggaggc taaaaagcgg ggtcacaaga agcctaggaa agaccagga gttccaaaca 180
 gtgctccctt taaggaggct cttcttaggg aagctgagct aaggaaacag aggcttgaag 240
 aactaaaaca gcagcagaaa cttgacaggc agaaggaact agaaaagaaa agaaaacttg 300
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 aacttaaaaa ggtgattgaa gcctccgatg ttgtcctana ngtgttggat gccagagatc 480
 ctcttggttg cagatgtcct caggtagaaa aagccattgt ccagagtgga cagaaaaagc 540
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<210> 2530

<211> 327

<212> DNA

<213> Homo sapiens

<400> 2530

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agcttctctc gccatgcgtc ctcgtggaag gttcgtgtgc taattagatg ggcgccaggg 60
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gttccgcctg gggcctcggt ggcggcttgc actccccgac atgacggccg ctgccctntg 180
cagggccggc cggcgattgc ncntgtcctg ctctctctaa gcccgggacc gcgggatggg 240
tgtcggcgtg accatccctt aactccctgt ctctcctcan tgacatcnc tttaaaccct 300
ncntggtaat ccctgactca ccgcctnt 327
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<210> 2531

<211> 355

<212> DNA

<213> Homo sapiens

<400> 2531

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gaggatgacg atgacgatga ggaagatgac tctgaagaag aagctatgga gactacacca 180
gccaaaggaa agaaagctgc aaaagttgtt cctgtgaaag ccaagaacgt ggctgaggat 240
gaagatgaag aagaggatga tgaggacgag gatgacgacg acgacnaaga tgatgaagat 300
gatgatgatg aagatgatga ggaggaggaa naanaggagg aggannagcc tgtcc 355
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<210> 2532

<211> 758

<212> DNA

<213> Homo sapiens

<400> 2532

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 agttatggct agtgctctga ctggttatct tcacactatt tcttctgaaa acttattgga 180
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 gcatactttg gatacttgct taaaacttga tgatactgtc tatctgaggg acatagcctt 360
 gtcactccca cagctgccgc gggagctgcc atcgtcacat acaaatgcaa aggtggcaga 420
 ggtgctgagc agccttctgg gaggtgaagg acacttctca aaggatgtgc acttgccaca 480
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 ttctgatgtg gatacaactt ctgctacaga tattcaaaga gtanctgtgc tatgtgtttc 600
 cagatctgct tattgtttgg gttcaagcca cccagaagg atccttgcta tgaaaatgcg 660
 gcatttgaat gcaatgggtt ttcatgttga tcttggtcaa taactgggaa aatggacnaa 720
 cttanaaaat gggaagatgc agtcccnttt ttgnaana 758

<210> 2533

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2533

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 tatatgacag aagaaaaaga tgtcattccg taaagtaaac atcatcatct tggctcctggc 180
 tgttgctctc ttcttactgg ttttgacca taacttcctc agcttgagca gtttgtttaag 240
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 tctccgacat gcagtagatg ggagacaaga ggagattcct gtggtcatcg ctgcatctga 360
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 atttattgtg caanggtgat attcttgccc ttacaatac naggacttga aaccaggaa 720
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<210> 2534

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2534

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 aatgcctgca taaattttcc acccgggatt atatcatgga accctccatc ttcaacactc 180
 tgaagaggta ttttcaggca ggagggtctc caganaatgt tatccagctc ttatctgaaa 240
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 ttgagccagt gcaggttcag gaaactgttg aagatcactt gaagagtttg ctgatcaaac 360
 attttgaccc ccgcaaagca gattctatct ttactgaaga aggagagacc ccagcgtggc 420
 tggaacagat gattgcacat accacgtggc gggacctttt ttataaactg gctgaagccc 480
 atccagactg tttgatgctg aacttcaccg ttaagcttat ttctgacgca gggtnccagg 540
 ggganacac cagtgtgtcc acagcatgcc agcagctana antgttctcn a 591

<210> 2535

<211> 731

<212> DNA

<213> Homo sapiens

<400> 2535

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gttacaccgt ggcggaatgg ggtgtattga ttctgagcaa taaacaacac atttttaaca 120
 ttcaggattg acttctaagg actcttggtg catgaggaag aaacccggaa ggggaagagg 180
 aaagcaaagg cgtcaggaat ggttcttcct caggtatitt ttctaaatgt gagatcaagg 240
 aattaccacc aaaaaaggag agtaatacag gagaaatatt ccagacagta atgttggaag 300
 gacatgaaag ccacgacata caagattttt gcttcagaga aaccagaaa aatgtacatg 360
 actctcagt tctgttgaaa catgattgaa gacattataa gcgagtgcgt gtgacctata 420
 aggaaagtct cattggtaga agagacatgc atggtagaaa ggatgatgca caaaagcagc 480
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 aagctgaang gaaaatatat aaatatgac acatggaaaa atccgtcaac agtagttcct 600
 taattcccc accccaacgt atttcttcta ctgtcaaaac ccacatttct catacatatg 660
 aatgttattt tgtggattcn ttattccnc caaaaganaa agccaatntt ggggacanaa 720
 cactaccaat t 731

<210> 2536

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2536

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 aggggattgc cccggaagag ggaggcgtg acgcaaccac acccgcttga ggctctctat 180
 gaatctctga nagtcttaga gaaggacacg tctgccacat ccagtcagt taatggatca 240
 cccaagcgg aacaaccttc attggaatct acaagcaaag aagccttctt tagcagagtg 300
 gaaacatttt ctcttttgaa atgggcaggt aagcccttg agctgtctcc actcgtctgt 360
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ctaaaatcgt ttcnaancct ttgtcacttg gaactccact tcctttccct naaggccgga 660
agaacttgaa aactattttc cttgaacnaa gnacaa 696

<210> 2537

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2537

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ttgaacatgc gtaattaatc tttctgaata ggaaaaaata tatacacaac aaaactctcc 120
gtttatggaa catgcgcatt tgttctcagt aagtttttcg ttttgaaagt gagcatgcgc 180
atggtgagta gggttggtccg aagtttgaac cggacagaag cgctggtcgg cgtctggcgg 240
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cccgggctgt tcttggtgac atggaacca aagttatcaa tcaaacgctg tcaaaggctg 420
cccagtcctgg ccaatggaaa tatggtcaac atgcatgctt ctgtcaaaaa caaggttctg 480
gaaacaactg ggcatatggt tactctgttc atggacccag gcatgaagaa tctataatga 540
acataatccg gaaggaagtg gagaaatgtg actctttcag tggttttttc atcataatga 600
gtatggctgg gggcacagga tcaggattan gaactttcgt tacacagaat ttanaanatc 660
agtntcaaaa ctcatgaaa atgaatcaga ttatttggnc ttatgggaac tgggtg 715

<210> 2538

<211> 451

<212> DNA

<213> Homo sapiens

<400> 2538

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ttagagcttg tggacaaatg tataggatca agaattcaca tcgtgaggaa gaggataag 120
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 actgagtttg aaatcacacc agaaggaaga aggattacta aattagatca gattttgcta 240
 aatggaaata atataacaat gctggttcct ggaggagaag gacctgaagt gtgaatgagt 300
 ttccttgact tacactagat ttgttttgg ctataatgac aagaaaatgg aatttttttt 360
 cccactttct aatgttttaa tcccataaag ctaagtttcc cgttaaaagg ggaagtgcct 420
 tgaagaggtg taccctantn ttgtaagtna a 451

<210> 2539

<211> 569

<212> DNA

<213> Homo sapiens

<400> 2539

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 cattgtgatt ggggcgggga tccagggtg cttcactgca taccacctgg ccaaacacag 180
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 gtcgagggca gagggtagaa caccagtgtt ctttcatctg aggaactgaa gcaacgtttc 480
 ccaaatatcc gggttgccca aggggagaag tggggctctt ggaaaaatc nggaggggagt 540
 taatctaag catnatnagg gccctcaga 569

<210> 2540

<211> 542

<212> DNA

<213> Homo sapiens

<400> 2540

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gatgtggtag tagggacccc atctcgcaact taagccactt gcagcaagac agcctgaaac 480
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tg 542
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<210> 2541

<211> 470

<212> DNA

<213> Homo sapiens

<400> 2541

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gatatcatat gctgtgtgtt cctgctcctg gccattgtgg gctacgtggc tgtaggcac 180
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gtggaaaaat gccccgaccg ctacctcag tacctgaatg ctgcagctc ccgggacttt 420
ganactataa gcagttctgg gttcctggct tcaagaaaat aaggnntggt 470
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<210> 2542

<211> 584

<212> DNA

<213> Homo sapiens

<400> 2542

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aaagtgtgat gagaggtcag gggaacatcc cagtaaaaga gaagagtcac aggaagctca   60
tctcctccct ggattctgga ttaggagctt ctgaatcttt tccagggata ggcaggtagc  120
tcaactcttg tgcaatttct tgaggatggg aacatgtaga gctgctggaa ggagtaattc  180
tgtgcttgac aaaggacgat ttctccttta tcgtgaccag tgctgccgat ttcctgacag  240
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cttcatgggt tagacttgct ggtcagaccc aggagcacct gtggctcaca ctttctgttc  480
ccctcctggc ctgtgcagaa tgtaaacngc agactcatac tcaatgggca ctacaggcct  540
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<210> 2543

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2543

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agagaactgc cgcttgccgc cattgacacg cacagataga acccaaagaa aggcaaagag   60
tcctgcccgg cgccggcgcc gcgtgggcca aacctgcgcc cgtggagggg cgcgcagagg  120
gcaccgggcg ccgggagcag gcggcgacac ccagcattgt gttagtgccg ggaggccact  180
gtgtcagcaa gctgagaggg aaactgaagc aagatgtcgg gccggagtgg gaagaagaaa  240
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cgttatctga agaaagggac gttcaagtac cggatcagcg tgggcgcccc tgtctacatg  360
gcggcagtc ttaggtacct ggcagcggaa nttctagaat tggccggcaa tgccganaag  420

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gacaacaaga aggcccggt agccccgaga cacatcttgc tggcagttgc ca 472

<210> 2544

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2544

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tatcagagtg cctgtgttca agtaactctt attttgcctca gtggccccag attgcaagag 180
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tttgctgctt ttctttaatc accctctcct cctgtggcct gtttctatat acttggcatt 480
ctgttggctt cctngtgtgn ccatcacttc ctncctc 517

<210> 2545

<211> 460

<212> DNA

<213> Homo sapiens

<400> 2545

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aaaatgttgt atgttcgctg tggacagtg ggttcagaa tgtttcttgt atatgtttct 180
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 agtgcctcac cctgggccct cactaatgtt tccagtgage tccagcttgc tcccatccat 420
 gaccacntgg accantcgag tctcangtgg gccatggtaa 460

<210> 2546

<211> 167

<212> DNA

<213> Homo sapiens

<400> 2546

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 tgctcccaca gggcagcacc atgtngcccc tgtngctctg ctgggcactc tgggtgctgc 120
 ccctggctgg ccccggggcg gcngtgaccg aggagcagct cctgggg 167

<210> 2547

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2547

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 gaaggaaatt ggtccagatg acatgaatat ggaagagtac aagaagtggc atgaagatta 180
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 gatgaagggg ccccgccggg gggtaaaga atccgtgatt gctttatacc gaagaaaatg 360
 cttctggag ctgaatgcca aagcagcttc tctttttgaa acaatgatga tcaactccgta 420
 acctnggggg cataatggtg atggaangga actgatcaat cccctgcnat tc 472

<210> 2548

<211> 476

<212> DNA

<213> Homo sapiens

<400> 2548

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cactattctc aggcgagcga gtggggcggt aaatacatca ggaaccgtat catccagttt 120
aaccaggggc cagagaagta cttcacccctg gggctcccca ctggccttcc tcgagacnac 180
ccggagagtt accactcctt catgtggaac aacttcttca agcacattga catccaccca 240
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gaagagaaga tcaaggctgc aggtgggata gagctatttg ttggaggcat cggccctgat 360
ggacacattg ccttcaacga gccaggctcc agtctggtgt ccaggaccgc tgtgaagacg 420
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<210> 2549

<211> 465

<212> DNA

<213> Homo sapiens

<400> 2549

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aatccgccgc cgctgggag gggaccggg ctgccaggcg cccagctgtg cccagatgga 60
tgggacagag acccggcagc ggaggctgga cagctgtggc aagccagggg agctggggct 120
tcctcacccc ctcagcacag gaggactccc tgtagcctca gaagatggag ctctcagggc 180
ccctgagagc caaagcgtga cccccaagcc actggagact gagcctagca gggagaccgc 240
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ggccggcatg cttctggact atttccaggc caacactgga caaattgatg acccccagga 360
gcagcacaga gtcacagca gcaacctggc cctcatccag gtgcanngcc actgtctngg 420
ggtcttggct gtgtggctgc gctgctgttt gggcgtgggt gtttc 465
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<210> 2550

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2550

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agaagggcaa cctcgtgctt tctgcagagg agaccggagg gcagaaggca gagtccaggc   60
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taaaaggcag gagcttcgtg ttgtgggtct gctaaccctg acgtttccgt gggcaagtcg  180
tgtgtactcc tcgcatggc tcagctccaa acacgtttct acactgataa caagaaatat  240
gccgtagatg atgttcctt ctcaatccct gctgcctctg aaattgccga ccttagtaac  300
atcatcaata aactactaaa ggacaaaaat gagttccaca aacatgtgga gtttgatttc  360
cttattaagg gccagtttct gcgaatgcc ttggacaaac acatggaagt ggggaacatc  420
tcatcagaag aagttgtgga aatagatacg tggagaagtg taccgcaccc cagccagagc  480
aagcaagttc cagatgacgg nncagttcaa ttaaagggca gagganggat ctgactggtc  540
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<210> 2551

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2551

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agaagggcaa cctcgtgctt tctgcagagg agaccggagg cagaaggcag agtccaggct   60
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aaaaggcagg agcttcgtgt tgtgggtctg ctaaccctga cgtttccgtg ggcaagtcgt  180
gtgtactcct cgccatggct cagctccaaa cacgcttcta cactgataac aagaaatatg  240
ccgtagatga tgttccttc tcaatccctg ctgcctctga aattgccgac ctagtaaca  300

```

tcatcaataa actactaaag gacaaaaatg agttccacaa acatgtggag ttgatttcc 360
 ttattaaggg ccagtttctg cgaatgccct tggacaaaca catggaagtg gagaacatct 420
 catcagaaga agttgtggaa atagatacgt gggaagtgtg cgcaccccca gccngagcaa 480
 tgcaggttcc atgatgactg gatcagtcca ttaaagggca aggatggatc ttgacgggtc 540
 ctatgaaaag cctncggatn gggcctggaa ggaagncaaa atgcatgtg g 591

<210> 2552

<211> 443

<212> DNA

<213> Homo sapiens

<400> 2552

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 gateccaccg ccgcgcaccg cgcacatcct cgccaccctc ggcttgcggc tcagccctcg 180
 gcccgcagga tggatggcgg gtcagggggc ctgggggtctg gggacaacgc cccgaccact 240
 gaggtctttt tcgtggcact gggcgcgggc gtgacggcgc tcagccatcc cctgctctac 300
 gtgaagctgc tcatccaggt gggatcatgag ccgatgcccc ccacccttgg gaccaatgtg 360
 ctggggagga aggtcctcta tctgccgagc ttcttcacct acgccaagta catcgtgcaa 420
 ttgatggta agaangggnn ttc 443

<210> 2553

<211> 503

<212> DNA

<213> Homo sapiens

<400> 2553

aaaaaatgc ttctgtgctc taagatatat atgtgtgtgt gtgtgctaca tatatatatt 60
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ggtttgattc actgactgac ttggaagctg catctgccag ttacacccca aatggcttta 180
atccccctctc gggctctgggtt gcctttttgca gtttgggttg tggactcagc tcctgtgaag 240
ggctctgggtta ggagagagcc atttttaagg acaggaggtt ttatagccct tttctacttt 300
cctccccctcc tcccagtcct tatcaatctt ttttcctttt tcctgacccc ctccttctgg 360
aggcagtttg gagctatcct tgtttatgcc tcactattgg cagaaaagac cccatttaaa 420
accagagaaa cactggaggg gangcccaa gtnggtccgg ggccaattnc cccgggccaa 480
aacagacaga cagaagcgag aga 503

<210> 2554

<211> 573

<212> DNA

<213> Homo sapiens

<400> 2554

ctgggcgcgc ggaacaaatc cactcctgga gcccgcggac cacgagcacg cgcctgacag 60
cccctgctgg cccggcgcgc ggctctgcca ggccagctat ggcccccgac ccggtggccg 120
ccgagaccgc ggctcaggga cctaccccg cgtacttcac ctgggacgag gtggcccagc 180
gctcagggtg cgaggagcgg tggctagtga tcgaccgtaa ggtgtacaac atcagcgagt 240
tcacccgccg gcatccaggg ggctcccggg tcatcagcca ctacgccggg caggatgcca 300
cggatccctt tgtggccttc cacatcaaca agggccttgt gaagaagtat atgaactctc 360
tcctgattgg agaactgtct ccagagcagc ccagctttga gcccaccaag aataaagagc 420
tgacagatga gttccgggag ctgcgggcaa aattggacgg atgggctcat gaggcaacca 480
gtcttcttcc tgtgtactgc tgcacatctt gctgctgatg gtgcacctgg ctcacctttg 540
gctttggngg ncttttgcct cctctcnggg ggg 573

<210> 2555

<211> 554

<212> DNA

<213> Homo sapiens

<400> 2555

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cttgtagttc gtggtctgag accaggcctc aagtggaaac ggcgtcacca tgatcgcacg   60
gcggaaccca gaacccttac ggtttctgcc ggatgaggcc cggagcctgc ccccgcccaa  120
gctgaccgac ccgcggctcc tctacatcgg cttcttgggc tactgctccg gcctgattga  180
taacgtgata cggcggaggc cgatcgcgac ggctggtttg catcgccagc ttctatatat  240
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gagggaccgt gaaatgtttg gatatatgaa attacatcca gaggattttc ctgaagaaga  360
taagaaaaca tatggtgaaa tttttgaaaa attccatccc aataacgttg aaagtcttca  420
aaaatgcttg cccaagttt ccactggaaa ccgggcggtt ccggaaatta gagggaaaag  480
ngttcctaata ggcagntgaa agcctatgcc aaatccgtaa ggttgacacc cttgtaatta  540
aaatacgtac catg                                                    554

```

<210> 2556

<211> 456

<212> DNA

<213> Homo sapiens

<400> 2556

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agccggctcg ggaaagaatc cccaagctc catttcatga gtaagcgtga gagccgctca   60
gtttcctcca gctctgctga agccagcaca gaagtagccc aaactcttcc ctctgctgac  120
agcaaatttt aggcaaagtc atgagaaaga agaaattggg tccagaaagg gaagtgagga  180
gaatcagatc ccagaccttt ggggagaagg agcaaccgcc tctggcacag cccatcaggg  240
agaaagagca ggttgagaag agtcctaagc taacagcccc aaacagggtg gcgttgctca  300
gctccctgag gcatgtggtt gtaaggcaga acccacagac cttgcaggaa gaaggctctc  360
ggggccatgg ccaggtcag catcaacaat gactacagcg agtgggactt gagcacggat  420
gccggggagc gggctcggnt gttgcanaat cccgnt                                456

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<210> 2557

<211> 578

<212> DNA

<213> Homo sapiens

<400> 2557

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cggaggtgac ggagcggcgg ccccgcccgg tgcgctggag gtcgaagctt ccaggtagcg   60
gcccgagag cctgaccag gctctgggca tcctgagccc aagtccccca cactcagtgc  120
agtgatgagt gcggaagtga aggtgacagg gcagaaccag gagcaatttc tgctcctagc  180
caagtcggcc aagggggcag cgctggccac actcatccat caggtgctgg aggcccctgg  240
tgtctacgtg tttggagaac tgctggacat gccaatgtt agagagctgg ctgagagtga  300
ctttgcctct acctccggc tgctcacagt gtttgcttat gggacatacg ctgactactt  360
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nctcagttgt caccctggct gctaaagtaa aagtgttaanc ccatatgcag tgttgctgga  480
ggctcttgcc ctgggtaaat gttgcggcaa ctgggaaaga ccttgatgatt gaaggctgtg  540
taatgctgaa cgtgcttcgt ggctncccng gaacagcg                               578

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<210> 2558

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2558

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cgttcgcgc tgcgccgcc gtcgtgcgtg ccgctcggcg gaggggacgg gcctgcgttc   60
tctcctcctt cctccccgcc tccagctgcc ggcaggacct ttctctcgct gccgctggga  120
ccccgtgtca tcgccaggc cgagcacgat gccccctaaa aaggaggtg atggaattaa  180
accaccccc atcattggaa gggttggaac ctactgaaa attggtattg ttggattgcc  240
aaatgctggg aaatctactt tcttcaatgt gttaaccaat agtcaggctt cagcagaaaa  300
cttcccgttc tgactattg atcctaata gagcagagta cctgtgccag atgaaaggtt  360
tgactttctt tgtcaatacc acaaaccagc aagcaaaatt cctgcctttc taaatgtggt  420

```


ggatattgct ggccttgtga aaggagctca caatgggcaa ggccttgggg aatgcctttt 480
 tatctcatat taagtgcctg tggatggcat ctttcatcta acacgtgctt tngaaagatg 540
 atgatatcac gcacgttgga agggangngt a 571

<210> 2559

<211> 481

<212> DNA

<213> Homo sapiens

<400> 2559

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 atggaacat gaaccgagac tcttctctgt ttcttgccaa gacctcatct gcactaatgc 120
 cttctccctg naccttgaca cttccccctt tagctataaa agcacttacc agccgaacgt 180
 ggaacagtat cacaaaagat tccatctccc aacgatttca gaactctgag ctgagagaga 240
 ctccagattt taaaaaataa ttTgagtgtt Tggaaactat tagcttttta agttccttcc 300
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 gtctaagaga agaaagataa ggttgctccc acccancctt cccaagggn gacattaaac 420
 atctttgtgc ttTgaaggag agtTgaattt Tgggatagtc ctgtgatttc cngactaact 480
 t 481

<210> 2560

<211> 417

<212> DNA

<213> Homo sapiens

<400> 2560

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 atggaacat gaaccgagac tcttctctgt ttcttgccaa gacctcatct gcactaatgc 120
 cttctccctg accttgacac ttcccccttt agctataaaa gcacttacca gccgaacgtg 180

gaacagtatc acaaaagatt ccatctccca acgatttcag aactctgagc tcagagagac 240
tccagatttt aaaaaataat ttgagtgtt ggaaactatt agctttttaaa gttccttcca 300
aataatgtag tacctaccct ttactttttc cccaagacca tctcaggggtg gagcattctg 360
tctaagaggg aaagataagg aggctccac ccantctcc caagagcggg ggnaana 417

<210> 2561

<211> 525

<212> DNA

<213> Homo sapiens

<400> 2561

acttccccgg gagccggaag tcccgtctca cggttgccct ggcagcgcgc gaggctgggtg 60
agtcggcagc cctgtggcag ccggcgggct gggttccatg gttgcacgat taggaaccac 120
cagctgctgc atcccatggc caggggtggc gtccaggtgg cagagcagct aggaacgcaa 180
ggcctgaacc tggggccaga caccctgctc tcccggccat ggtcaacgac cctccagtac 240
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tgctgcagtt tgggggtgctc ttctgcacca tctctctttt gctctgggtg tctgtcttcc 360
tctatggctc ctctactat tctatatgc cgacagtcag ccacctcagc cctgtgcatt 420
tctactacag gaccgactgt gattcctcca ccantcact ctgtccttc ctgttgccaa 480
tgtctcgtg ataagggtgn acgtaatcgg ggntgaagta tggaa 525

<210> 2562

<211> 547

<212> DNA

<213> Homo sapiens

<400> 2562

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cgcgcgatgt gcagcgggtg ctagtgcagt tccaggatga gggcgggcag ctgctgggtt 120

ccccgttcga cgtgcccggtg gacatcaccc cggacaggct gcagctcgtg tgcaacgcgc 180
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 cctcactggg gaagacgttg gagtcccagg cagtggagac agagaaggtc ctagacatca 300
 tctaccagcc acaggctatc ttcagagtcc gggctgtgac tcgctgcacc agctccttgg 360
 agggtcacag tgaggcagtc atttctgttg ccttcagccc tacgggaaag tacctggcca 420
 gtggctctgg agacaccacc gtgcgcttct gggatctcag cacagagaca ccacatttca 480
 catgcaagga cacngacact gggtccttag gaaatccngg ntccaatggc aaaaactggc 540
 tcaagct 547

<210> 2563

<211> 575

<212> DNA

<213> Homo sapiens

<400> 2563

gcttccggca ccggccgagg tcgggtcgcc tccagagatc ctgtgccttc aaaccctacg 60
 agtccatact ttaaaacaaa atgaagaaag taaggcttaa ggaactagag agtcgcctgc 120
 aacaagtgga tggatttgaa aagcccaagc tacttctggg acagtatcct accaggccgc 180
 acattgcagc atgtatgctc tatacaatcc ataacactta tgatgacatt gaaaataaag 240
 tcgttgacga tctaggatgt ggttgtggag tacttagcat cggaactgca atgttaggag 300
 cagggttggtg tgttggattt gacatagatg aagacgcatt ggaaatattt aataggaatg 360
 cagaagagtt tgagttaaca aatattgaca tggttcaatg tgatgtgtgc ttattatcta 420
 acagaatgtc caagtcattc gatacagtaa ttatgaatcc tccctttggg accaaaaata 480
 ataaagggac agtatggctt tccaaagncg ccttggaat ggcaagaccn ccgtatatcc 540
 ctanaccaat cccactggg gactgtccaa gaaag 575

<210> 2564

<211> 496

<212> DNA

<213> Homo sapiens

<400> 2564

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ggaaggtgcg tccgagccat ggccgctgcc aaccggtggg acccggcgtc cgcgcctaac 60
ggcgcctgggc tagtgctagg ccacttcata gcttcgggga tggatcaatca ggagatgtta 120
aacatgtcta agaaaacagt ttcttgtttt gtgaacttca ccagactaca gcagatcaca 180
aatattcaag ctgaaatcta ccagaaaaac ctggaaattg aactcctgaa actagaaaaa 240
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aaacccatgt gccaggaaaa cttacctatt gaagctgttt atcacagata tatggtacat 420
ttgctggagt tggctgtgac ttctattgag agattagaaa cccaccttga aacaattagn 480
ntattccnca tttagc 496

```

<210> 2565

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2565

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atctttctcac cgaagcttag tacagcgggt tgaacaatt tctctaggtg agcacccttg 60
tgacagagga gaacaagtaa ctctcttctt cttcaatgat tgcctagaga tagcaagaaa 120
acggcacaag gttattggca cttttaggag tcctcatggc caaacccgac cccagcttc 180
tcttaagcat attcacctaa tgcctctttc tcagattaag aaggatttgg acataagaga 240
gacagaagat tgccataatg cttttgcctt gcttgtgagg ccaccaacag agcaggcaaa 300
tgtgtacttc agtttccaga tgacatcaga tgaacttcca aaagaaaact ggctaaagat 360
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tgctgatcca gaatcctttg aagtaaatac aaaagatatg gacagtacat tgagtagagc 480
tcaagggcaa taaaaaggnc ttcaaaaagg gtacagggna ttccctttct ccaaactcca 540
aaagggctct tcgangg 557

```

<210> 2566

<211> 471

<212> DNA

<213> Homo sapiens

<400> 2566

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gaaagactgg agccgtttcc ttgtggctgg agcgcttccc gtagcctcgg ggaaggagca   60
ggatttagag gaccactagt tggaccccat cctcgtgctg gaggaacagg aacctctttc  120
aggagctata aaagaaaggg gggaatcatg tccacaattg cagctttcta tggcggcaag  180
tccatcctca tcacgggggc cacaggcttt ctgggcaaag tgctaattga gaagctgttt  240
cgcaccagcc cagacctgaa agtcatttac atccttgtga ggccaaggc tggccagaca  300
ctgcagcaga gggttttcca gatcctagac agtaagctat ttgagaaagt caaagaagtt  360
tgtccaaatg tgcatgagaa gatcagagct atttatgcag atctcaatca gaatgacttt  420
gcccatcagc aaagangana tgcaggagct tctctcctgt aacaaacnag a          471

```

<210> 2567

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2567

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cgcgatggag gccgccgccc agttcttcgt cgagagcccc gacgtggtct acggccccga   60
ggccatcgag gcgcaatacg agtaccggac gacgcgcgtc agccgcgagg gtggcggttct  120
caaggtgcac cccacgtcca cgcgcttcac ctccggacc gcccggcagg tgccccggct  180
cggggtcatg cttgtcggct ggggcgggaa caacggctcc aactcaccg ccgcggtgct  240
ggccaatcga ctgcgtttgt cctggcccac gcgcagggcc gcaaggaggc caactactac  300
ggctcgtga ctcaggcggg caccgtgagc ctgggcctgg acgccgaggg ccaggaggtg  360
ttcgtaccct tcagcgcggt gctgccccatg gtggcgccca acgacctcgt gttcgatggc  420

```

tgggacatct cgtcgtgaac ctggccgaag cgatgcggcg cgcgaaagtg ctggaactgg 480
ggcttcaaga agaaattttg ncgaanatga ggnccct 516

<210> 2568

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2568

gttgccaggg agcggcgcgn gagccctgag gggactgcgg cggctgcgcg gaggagcgag 60
gcgcttgctg gggtcggggc tgcgcgacgg cgcaagggtc gcggggagcg ccgcgcagggc 120
cgtgcagttc ctagcgagga ggccgcgccg ccattgccgc tctctcggtg agcgcacccc 180
gctctccggg ccgggccttc gcggggccacc ggccgcatgg gccagtgcgg catcacctcc 240
tccaagaccg tgctggtctt tctcaacctc atcttctggg gggcagctgg cattttatgc 300
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tacacgtca tccctgctgt agtgatcata gctgtaggag ccctgctttt catcattggg 420
ctaattggct gctgtgccac aatccgggaa agtcgctgtg gacttgccac gtttgtcatc 480
atcctgcncct tggtttttgt cacagaagtt gtttagtggg tttnggana 529

<210> 2569

<211> 520

<212> DNA

<213> Homo sapiens

<400> 2569

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cgggggcacc ttccagccct acctagacac cttgcggcag gagctgcagc agacggaccc 120
aacgctgttg tcagtagtgg tggcggttct tgcggtgctg ctgacgctag tcttctggaa 180
gttaatccgg agcagaagga gcagtcagag agctgttctt cttgttggcc tttgtgattc 240

cgggaaaacg ttgctctttg tcaggttggt aacaggcctt tatagagaca ctcagacgtc 300
cattactgac agctgtgctg tatacagagt caacaataac aggggcaata gtctgacctt 360
gattgacctt cccggccatg agagtttgag gcttcagttc ttagagcggg ttaagtcttc 420
agccggggct attgtgtttg ttgtggatag tgcagcattc cagcgagang tgaaagatgt 480
ggctgagttt ctgnatccaa gtccccatt gacatanggg 520

<210> 2570

<211> 544

<212> DNA

<213> Homo sapiens

<400> 2570

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catcccgggc cagccgggtca ccgccgtggt gcaaagagtt gaaattcaca agctgcgtca 120
aggtgagaac ttaatcctgg gtttcagcat tggaggtgga atcgaccagg acccttccca 180
gaatcccttc tctgaagaca agacggacaa ggtgagggggg tctgggggtcc tgggaccgct 240
ccatggggca caggggcctg agatggtggg tctctgcttc ctgggcctgc atggaaggaa 300
cagacttcat ctctcaaacc atgctctcta agaaggcatc ggaagtgacc tagtgagaat 360
aaggacgggt ggggtgagga agggctgctc agacagagcc caggaggagc aggaggcggc 420
catcagcagg gccggtgcat ggtggtgcag caactctgcc ccggctctct cagaacatcc 480
tactgacca tatgtgctgg gaaaagctgg gttcaaggga aaaaggacgg ctaaaaatnn 540
ncca 544

<210> 2571

<211> 587

<212> DNA

<213> Homo sapiens

<400> 2571

aaaaaccatg gatcctggag gtgcccgcga acactgcttg tcgcctgggc aaccggagag 60
 gacgaagcag gacctaggtg gcggcggttg taccggctgc aatgggtgcc aatcccgtgc 120
 atggcttgcc ctttcttccg ggcacgtcct ttaaggactc tacgaaaaca gccttccaca 180
 gaagtcagac gctgagctac aggaacggct atgcaattgt tcgacgtcca acagttggga 240
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 gtaaggcacc agtccttaact tatggccaac ctaaacaagc cccacctgcg gattttattc 360
 ctgcgcatgt ggcctttgac aaaaaggtagc tgaaatttga tgcctatttc caagaagatg 420
 ttccnatgtc aaactgagga accagtatan gggttccgtc aggtgaacat ttantaatta 480
 atctagaaag atgaccagca tgtctgtcat aagagcctgt tctagaaaat tctgggaatc 540
 cttcaagggc aagttaatta aaaccgccag cggggtagcc aagaatt 587

<210> 2572

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2572

tcttccaaca gnaacgttgg gaagacgagc aatatctttg ggctgcagag gatcttccca 60
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 tcaactgccct ccaaaaatgg ttcaaagaag aaaggcctga agcccaagga actcttcaag 180
 aaggcagagc gaaagggcaa ggagagttca gccttggggc ctgctggcca nttgagctat 240
 aatctcatgg acacatacag tcatcaggca ctgaagacag gctctttcca gaaagcaaag 300
 ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga cttggacctt 360
 gatggaaatg agagcccatt ggccctattg atgtctaacg gcagtacgaa aagggtgaag 420
 antttatcca aatctcggcg aaaccaagat agcaaagaaa gtagacaagg ctaggctgat 480
 ggcagaacag gtgatggaag acgaatttga cttggattca gatgatgagc tgcagattga 540
 cganagattg ggaaaggaga aagggaccct gatnataaga caaaatttcc ccgggaaatt 600
 gcccgtagca anccttgctc tgaaccaaac ccganttcgt gaancaggaa aaatttaatt 660
 ttgacatttg aaggaangac tattccnacc 690

<210> 2573

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2573

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aattactatg aaattctggg agtttctcga gatgctagtg acgaagagct taagaaagct   60
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gctttcaaag caataggaaa tgcatttgca gtcctgagca atcctgataa gagacttcgc  180
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tattacaggg gatattgaag ctgacatcac tccagaagag ctgttcaacg tcttctttgg  300
aggacatttt cctacaggaa atattcatat gttttcaaat gtgacagatg acacttacta  360
ttaccgtcga cggcaccgac atgagaggac acagactcag aaggaggagg aagaagagaa  420
acctcagact acatattctg catttattca gctacttcca gttcttgtga ttgtgattat  480
atctgtcatt actcagctgc tggctactaa tccccatat agtctgttct ataaatcgac  540
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aaaactttga caagggtac angaaggagc ttctctgcct tgactttggg agaaaaccat  660
tanaaaaagg attaccttg attatntcca gactagtgtt ttgggaangg anaaaccaca  720
aaagtccgaa ctgaacaaat tttggggcng ggatttttcc                          760

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<210> 2574

<211> 629

<212> DNA

<213> Homo sapiens

<400> 2574

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gtgactgtgg agtttgaatt ggggtggcgg tgactgtaga gccgctctct ctcactggca   60
cagcgaggtt ttgctcagcc cttgtctcgg gaccgcagcc tccgccgagc gccatggctc  120

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ctaggaaggg cagtagtcgg gtggccaaga ccaactcctt acggaggcgg aagctcgcct 180
 cctttctgaa agacttcgac cgtgaagtgg aaatacgaat caagcaaatt gagtcagaca 240
 ggcagaacct cctcaaggag gtggataacc tctacaacat cgagatcctg cggctcccca 300
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 tggaagangc ggcaacagct gacctggata tcaccgaaat aaacaaacta acagcagaag 420
 ctattcagac acccctgaaa tctgccaaaa cacgaaaggt aatacaggta gatgaaatga 480
 tagtggaaga ggaagaagaa gaagaaaatg aacgttagaa tcttcaaact gcaagantca 540
 aaaggtgtcc tccatccaan aagaaaactc agtccatacn aggaaaanga aaagggaaaa 600
 ngtcaagccg tgctaact gttacccca 629

<210> 2575

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2575

cttccgggtg agggtcctgc agcccgtgaa tccctggctc cgccgagact tggacctggt 60
 gcgaactgga ggcaagcgg gtgcaccac aacctatagg aagggtggc ggcgagctct 120
 gagcactcgg gcgtcggagg gaacgctctg ctttcaacac tcttggccct ttctcaagag 180
 aacatgaaaa tgaaaaaatt tcagatacca gtttcattcc aggacctgac tgtgaacttc 240
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 ctggagaact acagcaactt ggtctctgtg gggatatcatg ttagcaaacc agatgtgatt 360
 ttcaaattgg agcaaggaga agagccatgg atagtggagg aattctcaa tcagaactac 420
 ccagacattg atgatgcctt agagaagaac aaggaaatcc aagataaaca ttgacacaa 480
 actgtattct tcagcaacaa aacactgatt acagaaagan agaattgatt tggggaaaca 540
 cttaatctgg gcatgaatag tgttccctca agaaaaatgc cctataaatg tnatccanga 600
 aggaaacagt ttgaaaacta attcagaagt tattgttgcc aagaaaaccn anaaaacana 660
 aagattcctg atggataccg tgggatttgg ggaancatna aaaaaagtcc tttggggaaa 720
 tgaaaaaatt cc 732

<210> 2576

<211> 825

<212> DNA

<213> Homo sapiens

<400> 2576

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ttgttcagtc ctcaattggt ggacattttt tttattataa tgatgccatg atgatcgttt   60
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taataatgag cttcattgat ttgtaaatta tattatcttt gagattatat tcaaagctat  180
aaaatcatca actcttagga tcacaggcaa cctcaaaagt tgtctagttc ccatctattc  240
ctcgaccctc tctacggagt ttgtataaaa cccatatttt cattacttcc taactctgat  300
aattataggg gatataattt aaggattaaa actagtatct taaatgtttt tatatcagtc  360
agtttaaaaa ctaatatcca gtttagtctt tcagaacttt gagtcacgaa atgcatcttt  420
aaaagcaggg tacatttatt gaaataaaac actctacagt gatctggatc tttttttaat  480
ttatTTTTTT attatacttt taagttctgg gatacatgtg cagaatgtgc aggcttggtta  540
cataggtata cacgtgccac ggtgggtttac tgcacccatc aacctgtcat ctacattagg  600
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tcctgtttgg tttgccaaac attattgaaa ttgtTTTTTT tcccgaiaan aaaggaattt  780
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<210> 2577

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2577

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attctcatgg tcagtagcaa cttttggttc aaatatccca aaacatgctc aaaagtagaa   60

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cattttgttt caatattagg aaagtgtttt gaatccccctt ggacgacaaa agcgttgtct 120
 gagacagcat gcgaagactc agaggaaaac aagcagagaa taacaggtgc ccagactcta 180
 ccaaagcatg tttctaccag cagtgtatgaa gggagcccca gtgccagtac accaatgata 240
 aataaaactg gctttaaatt ttcanctgag aagcctgtga ttgaagttcc cagcatgaca 300
 atcctggata aaaaggatgg agagcaggcc aaanccctgt ttgagaaagt gaggaagttc 360
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 tttgaacacg tctgcaagcc caaagttgan catctgattg gttatgaagt atttgagtgc 540
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 gtttatggct ttatctgcct ctacactctc ttctggttat tccggatacc ttgaaagga 660
 atattctttc naaaaaagtc ngaaaaanaa aaacagtttt agtgacattc caaaatttca 720
 aaaaacnaat ttgggnttcc tccttcccat gggtta 755

<210> 2578

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2578

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 ggtggcaciaa tggagcgate tccaggagag ggccccagcc ccagccccat ggaccagccc 120
 tctgtccct cccagcccccac tgaccagccc cccgctgctc acgcaaagcc agaccaggt 180
 tctggggggcc aacctgctgg ccctggcgcg gcgggtgagg ccctggcggt gctgacttca 240
 ttccggaggc ggttgctggt gctgatacct gtgtatttgg ccggggcagt gggactcanc 300
 gtgggtttcg tgctcttcgg cctcgccctc tacctgggct ggccgagggt ccgcgacnag 360
 aaagaacgga gccttcnagc agcgaggcag ctactggacg acgangagca gctcactgcg 420
 aaaactctct atatgagtca tcgagagcta cctgcctggg tcagcttccc agacgtggaa 480
 aaggctgaat ggctcaataa nattgtggcc cangtctggc ccttcctggg ccantatatg 540
 ganaacttct ggctgaaact gtggctccng ctgtta 576

<210> 2579

<211> 467

<212> DNA

<213> Homo sapiens

<400> 2579

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agagtccccg ggccaagatg gctgcgcggt gctccacacg ctggttgctg gtggttgtgg   60
ggacccccgcg gctgccggct atatcgggta gagggggccc gccgcccagg gagggcgtgg   120
tgggggcatg gctganccgc aagctgagcg tccccgcctt tgcgtcttcc ctgacctctt   180
gcggccccccg agcgctgctg acattgagac ctggtgtcag ccttacagga acaaaacata   240
accctttcat ttgtactgcc tccttcacac cnagtgcgcc tttggccaaa gaagattatt   300
atcagatatt aggagtgcct caaaatgccg gccagaaaga gatcaagaaa gcctattatc   360
agcttgccaa gaantatcac cctgacacaa ataaggatga tccnaagcc naggganaan   420
ttctcccagc tggcagaaac ctatgaagtt ttgagtgatg aagtgaa                      467

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<210> 2580

<211> 593

<212> DNA

<213> Homo sapiens

<400> 2580

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gctgcttggt aacaatgggg aagataatgg ctgcctgagc aacgtctccg agcaggcgct   60
gagctagagg cgggtctcaa ccagctactc attggaggcg ggcttgagag cggcggccag   120
ggaggtgcgg agcagcctcg gcggcggcgg ccgaaccaac cgagtcggat cctgacccta   180
aaacctagta ttttccactt gttcatcaat atggaaaact cagattccaa tgacaaagga   240
agtggatgat agtctgcagc acagcgcaga agtcagatgg accgattgga tcgagaagaa   300
gctttctatc aatttgtaaa taacctgagt gaagaagatt atnggcttat gagagataac   360
aatttgctag gcaccccagg tgaaagtact gaggaagagt tgctgagacg actacagcaa   420

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attaaagaag cccaccaccg caaaactcag atgaaaatag aggaggagac tcttcanatg 480
atgtgtctaa tgggtgactct ataatanact ggcttaactc tgtcngacaa actgggaaata 540
caacaagaan tgggcaaaga agaaaccaat cttggagaac antgaatcng act 593

<210> 2581

<211> 892

<212> DNA

<213> Homo sapiens

<400> 2581

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attatgctaa tttcaaatga agattcctgc cttaaaatat tttttaattt aatgggtcagt 180
atattttgta aaaatcatgt taattttatt catanttgac attaatatct tccctaattt 240
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atattcaaca cctttaaatg ttgtaatctt aatatgcgaa gtgtgcctct gcaanatact 480
aacacaaagc tcatgttaag aaaacagttg aggactcgga agtcagttga aaatgcactt 540
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tttacatttt gaanatcaaa aaaatcttta caacctgaaa tccaggtcct aaaacaccnc 720
taaaattact ggggactata aattaatatt ttaaaaaatg cctgtttcta cacccatcna 780
anaacggttg tctacccta atctttgggt gnaacaaaa aaaaaaattt tnaatgcctg 840
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<210> 2582

<211> 776

<212> DNA

<213> Homo sapiens

<400> 2582

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agttttgttt acttaccatg gcaatagtgg ccttttagcc actaaaagtg atgaaactgg 60
atggacaacg ttttttgact atgacagtga aggtcgtctg acaaagtta cgtttccaac 120
tggagtggtc acaaacctgc atggggacat ggacaaggct atcacagtgg acattgagtc 180
atctagccga gaagaagatg tcagcatcac ttcaaactcg tcctcgatcg attctttcta 240
caccatgggt caagatcagt taagaaacag ctaccagatt ggttatgacg gctccctcag 300
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caccgcta at cgcacggttg ccaaaagaaa catgactttg cctggcgaga acggtcaaaa 420
cttgggtggaa tggagattcc gaaaagagca agcccaaggg aaagtcaatg tctttggccg 480
caagctcagg gttaatggca gaaacctcct ttcagttgac tttgatcgaa caacnaagac 540
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gcacccgact ctctggctgc caagcancaa gctgatgggc cgtcaatgtc acctattcct 660
ccacaggtcc aattgccagc atccagcgaa ggcaccacta gcnaaaaaan tnaattatna 720
cggacagggg aagatcntgt ctcgggtctt tggctgatgg ttaaacaatgg aatttc 776

```

<210> 2583

<211> 597

<212> DNA

<213> Homo sapiens

<400> 2583

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agcaagcagg aagaggaggc tttctaaggc ggtcgctccg ggaaatccgg gccctaggat 60
tgtccactca tcccagtatc agcgagatac ggggaagata gagttagcga cagcgtgagc 120
cagagctgga gcacgtttgg tgagagacca gaaagcaatg gangccggag aggggaagga 180
gcgcgttccg aaacaaaggc aagtcctgat attctttgtt ttgctgggca tagctcaggc 240
tagttgccag cctaggcact attcagtggc cgaggaaacg ganagtggct cttttgtggc 300
caatttggtta aaagacctgg ggctgganat aggaaaactt gctgtgaggg gggccagggt 360

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cttttccaaa ggaaaaaaan tgcatttgca gttcgatagg canaccgggg atttggtgtt 420
 aaatgaaaaa ttggaccggg angagctttg cggccccaca aaaccctgtt tcctaccttt 480
 ccaggtttta ctaaaaaatc ccttgcantt ttttcaggcg ganctacgga ttagggacnt 540
 aaatgatcat tccccagttt tcctanacaa anaaatactt ttgaaaaatt ccaaaaa 597

<210> 2584

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2584

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 actgaaccaa acccggaac atcttctgtg tcaacaacaa ccagcagtagt caccaccacc 120
 accatcacca ctctctctc tcgaatgcag cagccacaga tctctgtcta cagtgggttca 180
 gaccgacatg ctgtacaggt aattcaacag gcattgcac ggccccccag ctcagctgct 240
 cagtagcttc agcaaagtga tgcagcccaa caacagcact tgatgctgca tactgcagct 300
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 tcccaaacgt ctgtaagttc cctaaatttt tttttcctg gatttaaaat tttaaagaat 480
 tgttttccaa aagtaaactg ttgttattta tgaagctgtt attataattt gttgcatgct 540
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 ttnaacttat gaaaatctga atcttaaaaa aatcttngg tattatttct ggtatatcca 660
 tttgcactga tcatgttcca aatcttaagn tgggttncan cttnctgtgt 710

<210> 2585

<211> 518

<212> DNA

<213> Homo sapiens

<400> 2585

gagtcgccgc tgggcctgtc cgctggcgtc atggcaccga aaaagaaagg gaagaaaggc 60
 aaagccaaag gcaccccgat tgtcgatggg ctgctccag aggacatgag caaggagcag 120
 ctgtttatit ttaggtgaag ttgagtcctc cctctttctt ccttgccctt cgccggccac 180
 acgccccgtt gccgtgcatg ggcccctgat cagtgcctca cctgaccac tgcacctggc 240
 caggtggagg agcatgtcag ccgcatccgg gaggagctgg accgcgagcg ggaggaacga 300
 aactacttcc agctggagcg ggacaagatc cacaccttct gggagatcac acggaggcag 360
 ctggaggana agaagctgag ctgcggaaca aagaccggga gatggaagaa gccgaggaga 420
 ggcaccaggt ggagatcaag gtgtacaanc agaaagtga gacactgcta tatgagcacc 480
 anaacaacct gacanaaatg aangctgang gcactgtt 518

<210> 2586

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2586

agacacggaa gtgctgggag gcgccgggag cccgttcggt tgcgggtgtc tctggccctg 60
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 ggaacagaca aagccagcgc tcccgcgcgc tcccgcactt aggatccgat gccggcagcg 180
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 aagaaagan gtncctgcta aagaaactcc tccagcttca ggctctaact gaaggggaaa 480
 tacaggctgc agctccttcc cacagtcca gtttgccct gacttatggt gtggccagct 540
 ctgtgggaac tatacaggga gctgggccta tttcanggcc canactggg gctgaagaac 600
 catttgggaa gaaaactttn aaaggagaaa aaagaaaaag gccnagaaaa caacaaactg 660
 gaaaatcatc. 670

<210> 2587

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2587

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tttcccatg tctaattttg ggatttcagt gaggcctttt ccatctgtcc aggagaacag   60
aagggaataa aagataactg aaagaaactg aaggaaattt aaacaaagaa acacttgaaa  120
gaaactggaa agaaaaataa tttttttatg tgaacaaatt ttgcaagaag aaaaaagcat  180
aaaagacact aacggcaaat ctatgtttta atggaaaatc gtctaactgg agaagggcgg  240
tatccacccc acattcggat ccagggttcc tgaggcctcg cattgagctg ggggttcctt  300
ctgagcccca gtgtgtgtgg aatcagtgc cttctgactg ggcctgtagt aaggtgctca  360
tggggtttgt cttctacccc accatcagag gactttttaa atcataggcg tananagtta  420
gctatctgct gaattactgc cactcttctt ggtgggggct cctanctgtg gctgggggct  480
ccaggcgccc ctgtgattac ctctactgc caccatggcg ctcatcnaa ttccccactc  540
tcactaacat tgcttccttt ttgaccanc aggaacacagc aggtctggcc anattctcac  600
ttgcccatac atctcgttct tgggatgatt tccctcattg tgatgcttct ggggcacgtt  660
gaacatatnc acctctanaa nctaaccagg ctctcttcta ccantgtng ggcgggcttg  720
ggtctggtaa ccttgtctgc tctgccattc ca                               752

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<210> 2588

<211> 734

<212> DNA

<213> Homo sapiens

<400> 2588

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actccgcct tcatttccca tcgtgctgag gcgggtggca tggcgganaa ggatgacacc   60
ggagtttgac gaagaggtgg tttttgagaa ttctccactt taccaatact tacaggatct  120

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gggacacaca gactttgaaa tatgttcttc ttgtcacca aaaacagaaa aatgcacaaac 180
 agagggacga caaaagcctc ctacaagagt cctaccaaaa ggatctctca gtgctatttg 240
 ccttcattag cttgctcgtt atgcttcccg cttggtggat tgtgtcttcc tggctggtat 300
 ggggagtgat tctatttgtg tatctggta taagagcttt gagattatgg aggacagcca 360
 aactacaagt gaccctaata aaatacagcg ttcatttga agatatggcc acaaacagcc 420
 gagcttttac taacctcgtg agaaaagctt tacgtctcat tcaagaaacc gaagtgattt 480
 ccagaggatt tacactggta agtgctgctt gccatttaa taaagctgga cagcatccaa 540
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 cagcaangct agctacccta tatatgctga aaaaactacc cctgaactc tganantgac 660
 aatgtaacca actacatctg tngtgggtgcc ttttaaagaa ctggggcttg ggactttatt 720
 gaanaacnga tttc 734

<210> 2589

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2589

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 atgcaaaaaa caaaacgggc aactagtca ccccgaggg aggccaccat cactgtaact 120
 gttggccaaa gctacaaaag aagcgaggga atccaaccga gcgcagcgac actgagaaca 180
 gcttcccctg ctttctgcgg cggcagaagt gaagtgcctg aggaccggaa ggatgggtgca 240
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 caagtttctt cttactcgac ccagtctttg taaagaatgg gaggcagctg tcagaagaaa 360
 aaactttaaa cccaccaagt atagcagtat ttgttcagan cactttactc cagactgctt 420
 taagagagag tgcaacaaca agttactgaa aganaatgct gtgccacaa tatttctttg 480
 tnttgagcca catgacaaga aagaanatct tctggancca canggaaca 529

<210> 2590

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2590

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tatatcaata caccagtggc tgaaattatc atgaaaccaa atgttggaca aggcagcaca   60
agtgtgcaaa cagctatgga aagtgaactc ggagagtcta gtgccacaat caataaaaga  120
ctctgcaaaa gtacaataga actttcagaa aattctttac ttccagcttc ttctatgttg  180
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<210> 2591

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2591

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agaagttgca gtgagccaag gtcgcaccac tgcactccag cccaggcgac attgtgagac 360
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<210> 2592

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2592

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 ctcagcaagt cttgcagaag gaatgtcgtc ccangtttgc caagacatca atggcgctgt 480
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<210> 2593

<211> 716

<212> DNA

<213> Homo sapiens

<400> 2593

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aatgaattat tatttcttca tgtttatgaa tttgaatgaa ntgatgtttc cnaaanaacg 660
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<210> 2594

<211> 642

<212> DNA

<213> Homo sapiens

<400> 2594

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aggacttacg gcagtggggg ctgacaggga ttcacctacg ctcttaccag ctggagggag 180
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tgcananatt tgctccaggc ctttctgtg taacatatgc aggcgacaag gangaaagac 420
ctgccttcag caagacctga aacaggaatc acgttttcat gttctactga ctacctatga 480

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natttgcttg aaagatncat catttctaaa atcattccct tggagtgttc ttgttggtga 540
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<210> 2595

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2595

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acctggcaga aaacaccctc taccggctat gcccacagcc cagcaaggga gaggagctgc 480
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<210> 2596

<211> 656

<212> DNA

<213> Homo sapiens

<400> 2596

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 gtncatcact caggaangcc acaagctgga aacagggggc ccgcggccac canccaccgt 540
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<210> 2597

<211> 580

<212> DNA

<213> Homo sapiens

<400> 2597

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 cgtcgacatg gtagtgagtc ccgaagtcgg gaccatcgtc ntgaggatcg tgtgcattac 480
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<210> 2598

<211> 711

<212> DNA

<213> Homo sapiens

<400> 2598

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tattcctgac agatgaatac gacncagttc tggcttatga aaacnaaggg aagattgccc 660
angcccctga caggancgat cccctaattg ataccccttan cagcatgaat a 711

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<210> 2599

<211> 808

<212> DNA

<213> Homo sapiens

<400> 2599

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ccagagttga cagacaaaca caagcttgca gatatatgta aaaatctaaa tttccggcac 180
aaaatggctc aatatgccc aagtgcatca gtggcttttc ataccagtt attcttcaaa 240
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gtattaattc caaagtatgg tttagaaggg acagtctttt ttgaagaaaa ggacaaacca 360
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catgtatttg ataaagttaa agtgaaaatc atgttagact catctaact tcaacatcag 480
 aagatccgaa tgtccctggt agaaccacag ataccaggaa ataagcattc ctactgatac 540
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 ttctaagcct aagtgtgtga tacagtttgt tacttttaag ttcattttga ataaatttca 720
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<210> 2600

<211> 479

<212> DNA

<213> Homo sapiens

<400> 2600

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<210> 2601

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2601

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<210> 2602

<211> 655

<212> DNA

<213> Homo sapiens

<400> 2602

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 tggaccgcac tccctacctg ggggatgtcg ctgttgctgt gcaccctggg aaaaaagaga 180
 tgggaacccc actgcagac actcctacc ggcccgtcac ccggcatggg ggcatgaggg 240
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ctggggccca ngaacccaca ctatgcacag ancccaatgc atanaaccct ggcca 655

<210> 2603

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2603

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cccaggancc anaatcatct tctttgggtc tacaaccatc ttaatgaact tcctgtacct	660
gctggggaaa aattctgaac aactatatct nggatacaca naaaaaagcc ccctcttggg	720
cgagatatna aaattaantt tatgttecta ggaaccatcc tattantccc ccaaaaacaa	780
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<210> 2604

<211> 680

<212> DNA

<213> Homo sapiens

<400> 2604

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acagaagaga acactaagct ccgatatctc cctgttctct tattgaaaac ttngccgccg 660
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<210> 2605

<211> 621

<212> DNA

<213> Homo sapiens

<400> 2605

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621

<210> 2606

<211> 725

<212> DNA

<213> Homo sapiens

<400> 2606

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<210> 2607

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2607

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ngggacatgt nagtgct 557

<210> 2608

<211> 549

<212> DNA

<213> Homo sapiens

<400> 2608

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<210> 2609

<211> 503

<212> DNA

<213> Homo sapiens

<400> 2609

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<210> 2610

<211> 666

<212> DNA

<213> Homo sapiens

<400> 2610

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tcggcatgct caggaacggg ggcctcctct tcagaatgac cctgctcacc tctggagggg 180
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tgggctgcat cccctcatt aagtcacatca gcgactggag ggtaattgca cttgcagcac 420
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aaagatcctt actctgggcc tgggatttct cgttatccca tttctccccg cgantaacct 540

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gttcttccga atgggcttcc tgggtcccga acgtgtcctc tacctcccca ncgttgggta 600
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 cccntt 666

<210> 2611

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2611

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 aactgcctt atgttacant atgatgctgt tgtttaactcc ccacnccga cnatattaaa 660
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<210> 2612

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2612

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 aaatggagtt aaaaagtctt ctgataagca gaaagacctt aatgaaaaat gtctatatga 180
 agtaggaaga gatgataatt ctaaaaaaat catggaaaat tctggtatcc aaatggtttc 240
 aaaaaatggc aatttacagt tacacactga taaaggaagt tttctgaagg agaaagataa 300
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 agagggaac actcaaaaga aagaaacaac ctttttctta aaagagaaac aatatcaaaa 420
 tagaatgagt ttaagacaaa ggaaaacaga gtttttcaaa agcagcactt tatttaacaa 480
 tgaaagtctt gtttatgaag atatagcaaa tgatgacctt ctaaaggttt cctctctgtg 540
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 gtctaaagct gaatctgaag ccagcttgct naatgtttcc acgccaagt cactanaaga 660
 tctggaagaa ttagcagccn ccctactaca gaaaccctta naagttttga ttctgaacnat 720
 gttc 724

<210> 2613

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2613

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 tccattttac agatgagaaa atagaccag agagggttaag tcacacggtg gtttgtggca 180
 aagctagaaa cataactgtg gtctcctctt catagttctt tccactacac tattacattt 240
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 gaatganccc anatcacgcc acttgcactc ctgcctaggc nacanaacta gaccctgtct 660
 ccaaattaaa aaanaaagga ttaaggaaaa tttgattaat a 701

<210> 2614

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2614

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 gattctccat gggacgagtt ggctctggcc ttctcccgca cgtccatgtt tccctttttt 180
 gacatcgcg c actatctagt gtcagtgatg gcggtgaaac gtcagccggg agcagctgca 240
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 tcccagggtt attcatactt acctgttcaa ctactggctt cgggaatgaa ggaagtgacc 480
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<210> 2615

<211> 686

<212> DNA

<213> Homo sapiens

<400> 2615

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cagagtatgg aagcacctga ctacgaagtg ctatccgtgc gagaacagct attccacgag 180
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 gtcattctct ctccatgtgc ttccacagcc aggaccagag acctccctga tgactgggga 480
 acctgtggat gatgaaaatg ccaccgtcaa caagattgcg ctcgantgtg gcacctttac 540
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 gctgctctcc ctgcctcgga aactactaca tccantgggt caacgggntc ccncatccca 660
 tggccctgga aaccttgntt tttcct 686

<210> 2616

<211> 722

<212> DNA

<213> Homo sapiens

<400> 2616

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 caacaatttg tagaagatga agatgatgat acattctcct atactgttag aatagcagct 120
 caagacttgt tgctggctgt ggccacagat ttccagaatg aaagtgcagc agccctggct 180
 gctgcagcca ctgcacattt acaagaagct gagcaaacca aaaacagtgg cactgagcac 240
 tgggtggaaga tccatgaggc atgcatgctt gccctaggct cagtgaaggc catcatcact 300
 gacagtgtga aaaatggcag gattcatttt gacatgcatg ggcticctgac caatgtcatc 360
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 agtcggttca ctgttgctat gtcccctgaa ctgatccagc agttcctaca ggcaacagtt 480
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 cagcatcctt gatgggctta attcccctan cagcccagtt cacncagang tcctcaacct 660
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gg

722

<210> 2617

<211> 624

<212> DNA

<213> Homo sapiens

<400> 2617

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actgtgcata cctctggaga cgaagaggag ggggaggcct gtcctctctg ggatccattg  120
gtcacatccc cctgaggatt cccgaatgcc tacctccagt gtcgtcaaca tggagttctg  180
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cgttcccctc cagcctgggtt gctgggctcc tcggctggcg gcggggacgt gttcatccan  540
atgcccgcgt ccaanggaag aaagaagggg ccggggcgaa ggggggncct accaccacng  600
canccccacc accatttcca ccat                                     624
    
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<210> 2618

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2618

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ttattctagt gtcaaatccc acattttaaa taaatacaga aatgattttg atgattctcc  120
atttctccca caagaacaaa aagcacaaat aagggaaaaa ccgtgtgaat gtaatgagca  180
    
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tggcaaagcc tttagagtgt cttcaagcct tgctaaccat caagtaatcc aactgcaga 240
 taacccttac aaatgtaatg aatgtgacaa ggtcttcagt aacagttaa accttgtaga 300
 acatcaaaga attcactg gagagaagcc ttacaagtgt catgaatgtg gcaagctctt 360
 caatcgaatt tcactccttg cagcagatca gagaatacat actggagaga aaccttataa 420
 atgtcatgag tgtggcaaag tcttcactca aaattctcac cttgcaaata atcacagaat 480
 ccacactgga gagaaacctt acaaatgtaa tgagtgtggc aaggtcttca acagaaatgc 540
 acaccttgca cgacatcaga aaattcatag tgggananaa accttataaa tgtagggaa 600
 tgtggcaaag ctttttcagg ggggtcangg cttactgctc atcttggtat tcacactgga 660
 nanaacttta caaatgttat aaatgcggga aggtcttcca tccaaatgcc nccttaccag 720
 actccaagaa accatnctgg ana 743

<210> 2619

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2619

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 ttcccganac tttctggcac cgcaccgcgc gctgcaggcg cgcttcgatg acggccagggt 180
 tccggagcat ttgtccatg ccctgcctg cctgcagggc cccggtgtgg ccccggtgct 240
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 gcgcgtctta ctacactgcc caacactgcg cagntcccc tgcgcgctca cggggtgtgc 420
 gtgcgcctag tgccanctgt gcgggatccg cacatgctga ccttcctgca ncaactgcgg 480
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<210> 2620

<211> 553

<212> DNA

<213> Homo sapiens

<400> 2620

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gccccctctg ctgatgcgc tctccctca gcaccatgga cctgctggac tggggcagcc  180
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ctccgtcct cagtgaggcc cagctcagca gggcgctgcg ctaagaaggg aattcagcct  300
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tatggcccca cagacccct gtggtccagg gggaanaaga caagcccact antgtccaca  420
gantgcttgg cgggacagaa acccacgcgg aagccttaag acaccacaan gaaaaggggt  480
ctgggggcct tcccaagtc atctgtcttg tgcatcangt caccctaaac ttcanaagcc  540
tnaaacggca nca
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<210> 2621

<211> 805

<212> DNA

<213> Homo sapiens

<400> 2621

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gtgggacgac atattgagaa gttaatatat atattaaatg tgtttgagtt ntggctgact  120
ttctaaaagg taatcattta ataaaacctt gaatangagt tggatataat aaggaaggga  180
aaanattgac aagtcacccc aaaagcacag acacttnatg taggcaaagc aatgtctgtg  240
gttatccact cacaacttaa actttgaaat ccctgctttt tgactgcctc ccaggtttct  300
ctgctatttc gcaaagtagc cctcactatc tcaggtcacc ctctcacctc cttttccttg  360
gcctggagct gcaaagtctt cttttgcagc tggctcttga natcccagtc tttctccttc  420
cctgtaccct caggctccac ttcgttaggg aaggactttg gactccacac gggcaaagcc  480

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tgatctaaaa aagcagccag attcttgggtg acagtgaggc ccacacctct gangaagggc 540
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 ggctanactg atggcattct ctgacataaa ggttaacttc cagtanggcc ctgctaagct 660
 tggacagaaa agctggaatc tgaaactccc tggaaagggc aagaattggg gatcttttct 720
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<210> 2622

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2622

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 aaggtcacca agatattagt tgccgctttg acattctttc ttgggaaaga tgaagatgaa 540
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<210> 2623

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2623

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tctccagcgg ggacctgctc cgggacaaca tgctgcgggg cacagaaatt ggcgtgttag 180
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tgaagaccaa acaaaccagt cctggaaata ttaccanaaa aaanggtgc tggaacatt 600
ctccggaaca naaccaaca anatttggn cttattttt 639
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<210> 2624

<211> 472

<212> DNA

<213> Homo sapiens

<400> 2624

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aaaaaatcat ntgataaaaa gatcacatgt acatgaagac aatggaaagt tatttccttc 120
atccagtcta caaataccca aggaccataa tgcaagagaa catatccacc agtcngatga 180
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tnatgaacca tcttcattat ggtcttcaca cctaaagaan tgtagggttn aagccagaaa 360
ctgctcccct catcngcaa caaaatatca tggatcgatg ttactttgan aactctctat 420
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<210> 2625

<211> 642

<212> DNA

<213> Homo sapiens

<400> 2625

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ccgcttgctg ccacggcact tgaggcagcc ggagatactc tgagttactc ggagccccgac  120
gcctgagggt gagatgaacg cgctggcctc cctaaccgtc cggacctgtg atcgcttctg  180
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cagttccctt cctgaacctg gggacttttg gatgatgatg atggcatgtt tggtagcgca  600
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<210> 2626

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2626

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agctgggatt ttctgacttg taatgagcag ggggattgct ttttcacttt gtgacactct  300

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ttagagcttt aatgcttcac agtatatggc ctggtctcat ccttgctgt tccacttgag 360
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<210> 2627

<211> 825

<212> DNA

<213> Homo sapiens

<400> 2627

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 ccggctatgg cgaacaggaa ctggatgcca actctgccct tatggaattg gacaaaggcc 180
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 caatgctccg tccagctttt acaacagctt ggtcccatcc tatccgtccc accaaaatgg 780
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<210> 2628

<211> 807

<212> DNA

<213> Homo sapiens

<400> 2628

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tgccaagtgc cccgcgtccc accctcctct aggtgctcca agggaccacc ggggtgcctg  120
atacgagagc gggagtgtag agactcggag gccgaggttg anaacaaaaa catgcacctg  180
gagtttcccc ggagccctct gcgtggttga gcttcggtgg aatttcgggg ctcttggtg  240
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tgttaaaatg gccctgaaaa aagacaggga aaagcatggg acaccggtac attgaagggtg  660
ttcaagtcca cagaacccaa atggattggg tgttgaaaca cagtgggtcc ccaacaattg  720
ccnaaangcg ccaacgaatg gcttccttgc gggcttccaa ggantcccat tttggnatnc  780
cccaaaagga aaaaaaattg ttcaatt                                     807

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<210> 2629

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2629

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agtanagtgt ccggcttcgg tgccgagtgc caccgcgagt gggccgagac gcggagggag   60

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gcgcggccgg agctcgggtc gccgacgctg gccaggaccg cgcttcttcc cggcggcagg 120
 cggcgcgggtc cccgtgactc tcagaagccg cccgatgtag agccgcttct ttgtcccata 180
 cccctgacca ttctgtcgtg gcacggagcc gggtatctgc gggtacagcg atgaacaggg 240
 cagacgtggc caggccacac taccatcacc cttttctcca accctgaaaa acagttcctg 300
 agacctgaac tattgacat catTTtaac ggaccaactg cagctgtaac aagcttctct 360
 ttggggtcac aatgaccact gcaggcagg gaaatttagg cctcatcccc aggagcactg 420
 ctttccanaa gcaagagggg cgcctgactg tgaagcagga gccagcaaac canacctggg 480
 ggccaggcag cagtctccag aagaactatc ctctgtctg cgaaatcttc cggctacact 540
 tcaggcaatt gtgttaccac ganatgtctg ggccgcanga acattgatcc ggcttcggga 600
 nctctgccgc tgggtgggtc atgccagaag ttgcacacca angancaaT cctggaactg 660
 ctgggtgctt gaacagttcc tgaacatcct ccctgggggg aactcccga acttgggttc 720
 aacttgcac ncccctgaa aaattgttaa agaaagctt ttggcttttt gttggaaaga 780
 atttccaaa aaaaccctc nanttgggan tnaa 814

<210> 2630

<211> 660

<212> DNA

<213> Homo sapiens

<400> 2630

gttgttgctt gggcgcttct ccgctgcgtg taggtgaagg gggcttcctg accgaggaag 60
 acaatggtgt aaaattggtt gatcctttgg gtgaaatgtt ggccaccatcc tgggaggaac 120
 atgccacctg tttagcanat gctgaggaac aagatatcn gagagtgtt attgacatca 180
 gcgagaaaga agctgtgaat ctgcaacaag atgcctttgt agttattggt agagatacca 240
 ggcccagcag tgagaaactt tcacaatctg taatagatgg tgtgactgtt ctaggaggtc 300
 aattccatga ttatggcttg ttaacaacac cccagctgca ctacatggtg tattgtcnaa 360
 acccgggtgg ccgatatgga naggctacta tagaangtta ctaccanaaa ctctctaagg 420
 cttttgtgga actcaccaaa caagcttctn gcagtggaga tgaatacaca tcaactaacg 480
 ttgactgtgc aaatggcata tgggccctga agctantggg aaatggaaca ctacttctca 540

cagggcctgt cagttcacct gtttaatgat gggccaagg gcanactcan tcatttatgt 600
ggagctgact ttgtgaaaag tcatcanaaa cctccacnng gaatggaaat ttaatccaat 660

<210> 2631

<211> 573

<212> DNA

<213> Homo sapiens

<400> 2631

agcgcagtat ggcgggcggg gcccgaggagg tgctcacact gcagttggga cattttgccg 60
gtttcgtggg cgcgcactgg tggaaccagc aggatgctgc gctgggccga gcgaccgatt 120
ccaaggagcc cccgggagag ctgtgccccg acgtcctgta tcgtacgggc cggacgctgc 180
acggccagga gacctacacg ccgcgactca tcctcatgga tctgaagggt agtttgagct 240
ccctaaaaga ggaagggtgga ctctacaggg acaaacagtt ggatgctgca atagcatggc 300
aggggaagct caccacacac aaagaggaac tctatcccaa gaacccttat ctccaagact 360
ttctgagtgc agagggagtg ctgaatantg atgggtgtctg gaggggtcaaa tccattccca 420
atggcaaagg ttctcacca ctccccaccg ctacaactcc aaaaccactt atccctacag 480
angccancat caggggtctgg tcagacttcc tcagantcca tctccatccc cggagcatct 540
gtatgattca naagtacaac cacnatgggg gaa 573

<210> 2632

<211> 806

<212> DNA

<213> Homo sapiens

<400> 2632

tccaagatg gcgtccatca tggaagggcc gctgagcaaa tggactaacg tgatgaaggg 60
ctggcagtag cgttgggttcg tgctggacta caatgcagga ctgctctcct actacacgtc 120
caaggacaaa atgatgagag gctctcgagc aggatgtgtt agactcagag gagctgtgat 180

tggatatagac gatgaggacg acagcacctt cacaataact gttgatcaga aaaccttcca 240
 tttccaggcc cgtgatgctg atgagcgaga gaagtggatc catgccttag aagaaacaat 300
 tcttcgacat actctccagc ttcaagggtt ggattcagga tttgttccta ntgtccaaga 360
 ttttgataag aaacttacag aagctgatgc ttacctaaa atcttgattg aacaattaaa 420
 gctttttgat gacaagcttc aaaactgcaa agaagatgaa cagagaaaga aaattgaaac 480
 tctcnaagag acaacnaata gcatggtana atcaattaaa cactggcatt gtgttgctgc 540
 agattgccaa aagtactatt aatcccgttn atgcnatata tcaacctatc ctttgggaaac 600
 ctgtgatcag cacaatgcct tcccagactg tgttacctcc agaacctgtt cagtttgttt 660
 agtcanaaca gcgtccatct tcctacccat ttgganctgt ttttgggcta ccttggggaa 720
 ctctccaga ctctacccc caaatTTTTT cagggcgntg ggccctttcc cccacccgaa 780
 tttaccantc ctccncttcc ctacca 806

<210> 2633

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2633

agaccggaaa cggaggagag cgcgggggat gtgtttggca tggggacgca ctgttacagt 60
 tgcgctcctg gttggctttg tgtttccgcg gtgttggttag agtctcggtg tttctacctc 120
 ttagcaccct ttctgccac ctttgtcct gtggaagccc ggagacatca gcggctgcaa 180
 ttttgctact cgctgctcgg catggaacgg tcaggtaccg cagttcagcg ctcttgcccc 240
 cgcaggctct cgggcacccc cgtgccccgt gctgtacatt cagttatcct ccgacttccc 300
 ggggtcgaag gtattacctg ctgggtttta gaatctattg ctttacatct gagaaaagaa 360
 aaatcccaga aagataagat gacttgccca agatcatagc gtgcctggaa agacagtgct 420
 ccgattacaa gctggctcgt gtgcctcatt cgtcttgta tcaactcctg tcagtttatc 480
 caagctccaa aagcgaantt gttttaactt ttgcttccca aganttattt gatantctca 540
 tttctgttcc cctnctttta tccttncgtt 570

<210> 2634

<211> 459

<212> DNA

<213> Homo sapiens

<400> 2634

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gataactaaa ttgaaagtgc tggcagtcca tntggggatt gattagaatc taggggagat   60
gtagttgtca gtgttcattc tgtatgtaac tcctgtcttt ggtttcagat ctggtttagt  120
tctgttgatc cttggggaac tttctcattt gtttttattt ttgccttgga tctatgaata  180
cctgaatgta ttgtctaaaa tggaaaaatc ttaatgtagc cattctatta ctatcactga  240
ccctaggcct gaaaaaagtc acacctaggg ttaaaaaatt tttatttnat tttattttat  300
ttacttattt agagacagtt tccctctttt gcccaggctg gantgcattg gcatgatccc  360
acttcaactgt aacctctgcc tcccaagctc aantgattct ataaccncaa gcctcctgag  420
tagctaggga ttacaggccc cncaccaatn cccaacnaa                               459

```

<210> 2635

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2635

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agaaaaaatg aatgtcataa taaaatataa aacttacgta aagaaaaataa agtcattgtc   60
caccttaata gctaaggctc acaagggtaa cttatgcagc atttattttt ttgaaagtc  120
aaaattgaat ttatttcctt cacatggctg gtttgctgca atatgaagtt tcagaatggg  180
ctgaagtaag ttgattgagg gatttgagtt gaatgacatt ttcaagttca tttaaatatg  240
ataaaaattc attggtggta aataacatct gtctttcctg gaaaaaaaaa agttgtgtat  300
tttcatgatt cagttaaaac aaaaaatgag cctgtgaatc ccaggccttt ttagtcctcc  360
ataacatttg aacagtttga cttgtcagca aagaaataca cttatcaaatt tttaaaccaa  420
tgggagcctg aaagtgttac agtgtactgc ttctttgaca aaattctgtt taacaactac  480

```


cctaacataa tttataaatc aattaagata aaaccatttt tttctganta tttangaatt 540
 tgtgtcctca aaatactgtg acatgaaaga taggaaagaa attacctggt tgccagacat 600
 gcncgattat ctttcctcat ttcagctgga ttttccaaag tccgtanatt ggataaagca 660
 gcatctcatt cactgaagtc acaagatagg taggaacttc tttaatgtga atttgcata 720
 tttacnatt ccttnnaaaa acanaaaccc cttgatggat tataatntta aatgttttac 780

<210> 2636

<211> 849

<212> DNA

<213> Homo sapiens

<400> 2636

agaacgcaca ggagttccat ttttacaggt aataccctgc tttcagcgtg atggtttatt 60
 ttgtctacat gaaaatggtt gtataacttt acgtgttcga agatcttata ataacatttn 120
 taccacttca aatgaggaac cagatccaga tccagttcag gagcttacct atgattttacg 180
 aagccagtgt gatgcaatca ggggtgacaaa aaccgtccgt cccttcagta tgggtgtgctg 240
 tcctgtcaat gagaatgcag ccgccctcgt agtgagtgat ggcagggtca tgatatggga 300
 actcaagtct gcagtttgta atcgaaattc acggaacagt agttctggtg tgtcaccttt 360
 atattcacca gtgtctttct gtggaattcc tgtaggagtg ctacagaata aactcccaga 420
 ctttctctta gataacatga ttgggcaaag tgcaattgct ggggaagaac atcccagagg 480
 ttcaattctg cgggaagtgc acctcaagtt cctgctgacg ggactgcttt caggactgcc 540
 cgcaccacag tttgctattc gtatgtgtcc accgttganc acaaaaaaca tcaagatgta 600
 tcagccactg ctggctgttg gtacaagtta atggctcctgt cctggtgtta catctcacca 660
 gtggtctgct acacaaagan ttaagcatcc actcatgttn aantcaaggg gtattgaatg 720
 gacaaatttg actaagtttc cttccttttg gctacctcaa caccaaaca tatggggaat 780
 tangtgaana aattgaactt cnacctgggt tgaatcttcc caaccanggt taggaacant 840
 ggcttttcc 849

<210> 2637

<211> 759

<212> DNA

<213> Homo sapiens

<400> 2637

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atagcattgt aactcagaat ggtgaagtat gctggaaaac aatcacagac tgtgtgagct 60
acacagagtc agagcagggt ctggattact ggggaagcgt gaggctgctg ggccctgtgt 120
gtgaggctgt ccattcacat ttcttatctc tgaccaaggg gcaatttgaa attcgatatg 180
caccgtggtt ccagtggaca agttttccag agttatttcc tgaaatattt gatgccttgg 240
aaagtctaca atctcccgt atttctctta gcttaatgaa actgacatcg tgtctagaac 300
gagccttggg tgatgtatgt ttactgattg ggaaggaatg cccctttctt ttaagagatc 360
tgctttcatc tgaggagctt gctcaagtct tcagtcagtc tgtgatgaat gtgctaaaag 420
tcttcgttgg ctctccgtgt ggtctcaacc tgcgtaacgt cttatggcat gggtttgcgt 480
cacctgaaga aattcctcca aaatactgtt caatgatgat actgttgacn gcaggattgg 540
gtcagttact gaananttac cttcaaaaca ctaaacttac attggcacat cgctctttca 600
tatctcttac aaacctnaa gatttgattg tttttcctga tgttacttat gaagtgcctt 660
ccagtattan aaaaantgat gatnaaatct gcttttatat ttaaaaaatc ctgtttccat 720
attggggaaa ttgcnctggt ccaanttcaa attcccaca 759

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<210> 2638

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2638

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gaaaagaggg gctgaagtcg cccttgaata accacagcag tggcaccac aaaggtgcag 60
ttcccacagc ctcatactgt cttgtaggtg ccacctctta aggccattac catagcaatt 120
aatactgaac atgagctttg gagcagacaa aactcaaac cgaacagggg gatggaggaa 180
aggagcttca atggcaagat ctcttggaact cctgtcctgg cccctctctc ccctgcccc 240

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cccctgctct cctcctgctc cccctctcag ancttgccct gaccctgctc ctctcccagg 300
 tgtattccga acttaagtac caccagana tganattctt ccactgggtc agcaagtgga 360
 ngaagctgca tcntgaccag gantatgagg tcacctggta catatcctgg agcccctgca 420
 caaagtgtnc aagggatatg gccacgttcc tggccgaaga ccgaaggta ccctgaccat 480
 ctttgttgcc cgcctctact acttctggga cccanattac caggaagcgc ttcncancct 540
 gtgtcanaaa aaaaacggnc cgcgtgcccc c 571

<210> 2639

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2639

agtcccggga gcccggcctc gtgcgccg cg ctttgagcct ctaggccatg aaactgcctc 60
 accaagcact atgcaattga gtgcccacca gaagacaccc ctccagtcaa cccacagacc 120
 ccagaaagag taccagagg agcctgagca cactccaccc tatctgttct ctgaaattca 180
 atcaaatgag tcactctact tctctggaag cagaaagagg ctggaagttt ttctccagca 240
 gcagactgct cgacaaacac tgcgccaaga gctcctcagc agaagctcct cgcacagat 300
 cctctgtgct gggaatcctc cctcttgag cacactctgt gctcctctc cagttacggt 360
 gcagtgaan caatggtatg ggaaaattgt ttgcagaagg atgaaaaggc ttattgcca 420
 aactcttaag gtattttgtt aataaaatca ttttcataat ggaaaagact cagaaaattc 480
 ccctcgcagc acatataaca tccaacaagg ggctgaacca anaaaaata ctgcagctgc 540
 tgctaattggc aacactgaag caagcacctg gcctgtgcca ngcactgtcc tgtgcantct 600
 gtgtttgcac tcattttatc ctcnganc n 631

<210> 2640

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2640

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agcaacatgg ccgccgcctg agaggagagc cgggccgccg ccgtctctgc agcccgcggg 60
taactgggcc gttgccgccg tccgcgctcg gccccgcggg aaaaatcgag ctgaaggact 120
gcgcggctgg ctctcctcta gtatggccaa tgaagaggat gacccagttg tacaggagat 180
cgatgtgtac ttggccaana ntctggcgga aaagctgtat ctatttcagt accctgtgcg 240
tccagcctcg atgacctacg atgacattcc gcacctctca gccaaagatca agcccaagca 300
gcagaaggta gagcttgaga tggccatcga caccctgaac cccaactatt gccgcagcaa 360
aggggagcag attgcgctga acgtggacgg ggcctgcgcc gacganacca gcacgtattc 420
ctcgaagctg atggacaagc agaccttctg ctcttcccag accaccagta acacatcccg 480
ttatgccgct gcactctaca ggcaaggatga gctccacctg acacctttac atggcatcct 540
gcagctgcgg gccagcttct cctacctgga tnaggctgac gccaaagcacc gggagaggga 600
agcggccaac gaagcagggg gactcttcac aggatgaagg cggaaaacga tgtttancag 660
atcacggtgn cggttctccc ggccggganc agaacagggc ccgcagcgcc cgtgttgcca 720
gtcctatgaa ttcnggcan aaaaaaaccc ccca 754

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<210> 2641

<211> 744

<212> DNA

<213> Homo sapiens

<400> 2641

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cactggcaga tggagctgcg cacctgcggc ctcccctaca tcaacctega gttcctcaag 60
gcccacacca tgtaccaagt ggggctgatg gagacggacc agcacatcga gttcttctgg 120
ggggccctgg agatgttcac ccaggaggag ctgtgcaagt tcatcaagtt tgcctgcaac 180
caggagcgca tcccgttcac ctgccccctgc aaagatgggg gtcccgacac tgcccatgtg 240
ccccgtacc ccatgaagat cccccccca gatggcacag caggttcccc agactctcgc 300
tacatccgcg tggagacctg catgttcatg atcaagcttc ccagttactc ctctctggaa 360
atcatgctgg agaaacttcg ttgtgccatt cactaccgtg aagaccccct cagtggctga 420

```

tgggagggag ccccaacaatt aggcctgtcac tgaggcaccc actctgctgg cttgggaagc 480
 caccactgcg gcccgtccct ccagggccct gcgtgaggag ttggcaacat tttgcttttc 540
 caaactttcg tccacattcc agggcctcct ggaaaattaa ccttttgtct ttgtacgttt 600
 cgtgatgggt tggttctttt gctgcctggt tgtgggtctat ttgtangata gtttantttc 660
 ccanaacagt ttgtgtctaa ttttgatctt tcttgggaca ttgtccctcc attggccacc 720
 anaattccta atngccatta aggg 744

<210> 2642

<211> 865

<212> DNA

<213> Homo sapiens

<400> 2642

aagaaggaaa atggacaatc atttctgcac atatagggtt taataaaaca tgtataataa 60
 aatatctcat attttaaat tccaccttat tggtagcttt catgacaaag ggctagggtg 120
 ctgatggcca tacaattaag gtttttggtt agttagttag cagaactaac tggctcctac 180
 ctgggtgggtt tttcttttgt ttggttggtt ggttggttgg tttttccca natggctcag 240
 gaggaaggta aatagcagtc attgtatgtg tgacagagtt tgagatagaa tgagcatatt 300
 gaatctcaca tcctattctt attactgtca ggcagcgttg acctagcagt ataaaactat 360
 ctgaagcaat gtagtcactc agttctcata aagtttattt caagtactgt aacaattcat 420
 gtttgatta gaaaagtcac tagaaatttg acttccatat agtaatctat acttttttct 480
 ctcatttcct tcattttttg agccgtaagt gtaaggcatt ttgctggtat tattacaatg 540
 gttatgagga ntttctttgc ttgcccaagg tcacatanct agcaagttaa agtaaattca 600
 aatccaggcc tgctanatac caaattatta tttaagaata cttttcacta ctcctaaatt 660
 atgacacaga tacntttgtc ttacacattt cactttattg tccagtttat taatatgttt 720
 tattttccaa aagttatttt ttggcaatt tcctttttta ttaattcccg tactttttta 780
 aaattttact tccatttaat ncaccgttct tcctttttaa ttcctttttt aaaattaaat 840
 ttttttgcc tttttggttt atttn 865

<210> 2643

<211> 624

<212> DNA

<213> Homo sapiens

<400> 2643

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agcgccttcg ctctttggct ccctgagtta gtccggttgt ttgcgatcgc cgcggccggg   60
gctgcgaacc gaagggtcgc ctccgcgccg cctgggtctc tacctcatcc gtaggtgtgg   120
ccctgatggt gtggcaggct ctggactcct aaagctctgg agcgaattta agattttatt   180
catgtgcatg gcatagaaga tgaattcttc cacttcacc atgagtgaag agcctgacgc   240
tctatcggtg gttaccagt tacgggatct agcagcagat ccgttaaaca gaagagccat   300
cgtccaggat cagggatgtc tgccctggcct tattttattt atggaccatc ccaaccctcc   360
agtcgtccac tccgctttgc ttgctcttcg atacttggca naatgccgtg cnaacagaga   420
aaagatgaaa ggagaactgg gtatgatgtt gagcttaca aatgttatac agaaaactac   480
nactccaggg agaaacaaaa cttctggcct ctgaaatcta tgacattctt cagtcctccn   540
atatggcaga tggatgatgt tttaatggag atgaatncac ctccaangga aagctcaatt   600
ttttctgggg aactacnaac naac                                           624
    
```

<210> 2644

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2644

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gactatacag gacatgttca tcctggaact tacacaaata ccttagaacg tctagtgaag   60
gaaatggaag acacacaaag gctagatgaa ctgcagaagc aactacaaga agacataagg   120
caaggccgag gcattaaatc cccaatcaga attggagaag aagacagtac agatgatgag   180
gatggcctct tagaagagca caaggaattt ctaaagaaat tttcagttac aattgatgct   240
attcctgatc atcatccagg tgaagaaata ttttaatttc tcaattctgg aaaaattttc   300
    
```

aatcagtata ccttggattt aagagactct ggttttattg gacaaagtgc ttagaaaaa 360
 cttattctta aatcgggaaa aacagatcag atttttttga caacacaagg tttccttacg 420
 tctgcttate actatgtcca gtgtcctgtc cctgtgttaa agtggctgtt tcggatgatg 480
 tcagttcata cagactgtat tgtgtcagtg cagattttta gtacattgat ggaaataacn 540
 attanaaatg ataccttcag tgactcacca gtttggccat ggatcccatc attgtctgat 600
 gtacagctgt gtttttccat atggggattg attttagatc tttgtttccc tggagaatct 660
 tcnnccagac tttnatgaaa aactatctan tttctgaaac ccngacac 708

<210> 2645

<211> 644

<212> DNA

<213> Homo sapiens

<400> 2645

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 gctgcggggc gcggagtcgg gactgcaggc ctgagtgttc ctccagcat gtcggagggg 120
 gactcccaga cagtacttag cagtggctca gacccaaagg tagaatcctc atcttcagct 180
 cctggcctga catcagtgtc acctcctgtg acctccacaa cctcagctgc tccccagag 240
 gaagaagaag aaagtgaaga tgagtctgag attttgaag agtcgccctg tgggcgctgg 300
 cagaagaggc gagaagaggt gaatcaacgg aatgtncag gtattgacag tgcatacctg 360
 gccatggata cagaggaagg ttagagggtt atgtggaatg angtacagtt ctctgaacgc 420
 aagaactaca agctgcagga ggaaaangtt cgtgctgtgt ttgataatct gattcaattg 480
 ggagcatctt aacattgtta agtttcacaa atattgggct gacattaaag aaaaacaang 540
 ccagggtcat ttttatcaca gaatacatgt catctgggga atctgaagca atttctgaag 600
 aanaccanna agaacnccag acgatgaatg aaaagcatgg aanc 644

<210> 2646

<211> 752

<212> DNA

<213> Homo sapiens

<400> 2646

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tttcataaat catttgctcc tgtcttttgc ttttaattgtc ctatttgcta taaatacttt 60
tttatactct acttttttat tcaatttaat atgatcaagt atgttcgtct tttttgtatg 120
ttgaccttc ggtgatattt ttgtttttt taatttgggg tgtgtgtgtg tgtggtggtg 180
gtggtggttg ttatatanta ctgatgtggt attacttggt ctgatacta tagctctata 240
gctttgtgat tactanttct tgacatgtta ggggtggcatt tactgcttgt ctccgttca 300
agtaactttt ctttctagtt aaaatgagaa tgaaattttc cttaaaatta ataaacttac 360
ctttttatat tgagattaat cattcatttt tttttganat ggggtctcgc tatgctgacc 420
aggctgttct tgaactcctg gtctccagtg atcctcctat ttcagcctcc caaagggcta 480
gaattacagg tgtgagccac tgcaactggc tatattaaga ttaatcttta ttctctattt 540
acagcaagta ttgcccact tgtgttctgt tnaacaaaga aatcaantgt ttttcctttg 600
taacgtanca caattaattt ctttgtcatt ttaatgccnt ctttgaata aatttttttt 660
atcattaagg tggnaataat tatccccant aattttnatg gttgtttatt aatngaaaac 720
aaactttcct acccaaactt tttggggcat tn 752

```

<210> 2647

<211> 828

<212> DNA

<213> Homo sapiens

<400> 2647

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ccccagggtc ggccacagtt ggacaggagc accctgcctc ccctgtagca ttcgtccccg 420
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 tggactgctg cggcaaatcc tcaactggttt ctctgcttcc actctcgccc tttccctang 660
 tcattctcca cgttacancc caaggggnat cttaatattt atttattaat ttttaatttaa 720
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<210> 2648

<211> 786

<212> DNA

<213> Homo sapiens

<400> 2648

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 aatgcagtat aacctgcgac tgagggtcca gatggtcattg aaaatgcggg aatatctctg 180
 taatctgcat gggtttgtgg atatagaaac cccacattg ttttaagagga cccagggggg 240
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 gtcccaaca gtttaagcaa cttctgatgg ttggcggttt agacagatat tttcaggttg 360
 cccgatgtta tcgagatgaa ggttcaagac cagacagaca gcctgagttt actcagattg 420
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 ttaacccctt gggaactgtt gaaaagccat tttgtttccc tgaaaggaac caaaatactt 720
 taaaaaggg aaaagaactt tgaaatncca ttttaanaaa cttccggaag nnttgaacc 780
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<210> 2649

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2649

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gagaatatca acttgagtat tttatccgtt gctttcttta attgggtcat ttcagagggt 180
gggtagatth tgtaagaca gttgaaatat ttaggtaggt agaggggtga gtgcagttga 240
agagtaaagg ctgtttgggg cagacaaaag gatgatagca ctctttcaag tgctctgcca 300
ccagcagtaa aagtcgggag aaggacctag caccaggaca cgtgatctgt ccggcgtaag 360
cgagtgtga gtcaaaggcc tgcaattcag gcccctgctc tggggcacgg tcagtttcag 420
ccaggcccaa ctctctttcc caggtccatg gcgtggatgg caccanaat ccagcanggg 480
antgctgggtg gatacacctg gganggcctg gtggaagatc attgcgttg canaaataag 540
gaaata
546

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<210> 2650

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2650

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gccctggant gaaggaggag ccgtcacctg gagctccgaa aaaagcagaa gaaggcgctt 180
tttatttagc cagtgtgacc ccgccagggc cttctcggtt gggtgagcac tctctctgac 240
caggccatga aaagaaaaat ctgtgcgatg cctccccaca tgtcacggga ctctgacttg 300

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cctttgtcgt cagagtttgc agaactttgg gggacctgag aggggagtg cccctggacg 360
 ggccacggct gtctgtggct taagggttt tggaagggcg gaganaggga aacggcgtcc 420
 tagtggcctg cttcagggcc acccacgggc cctcccccaa cctctctctg atccaacttg 480
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 ggggaaactt gtttttaang ggtgccactg tttttgttac atgttgctcc tagctcttan 660
 cattcatggg tactgttggt aaccgtccaa tgggttccact tttgtctgct agatagaacc 720
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 cgg 783

<210> 2651

<211> 718

<212> DNA

<213> Homo sapiens

<400> 2651

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 aaactcctgg gctcaagtga tctcctgcc tctgtcttcc aaattgctga gattactggc 180
 atgagccatt gcacctggcc ttcttttttg agatggcctc aggttggctc tgcctggaga 240
 gggggaagct tgtaaagatg gcttagaaaa aaagtcctgg ctccatttct attttctccc 300
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 agaagatcaa ggctcgtttg aaggctgagt ttgaggcact tgagtcagag gaaaggcacc 420
 tgaaggaata caagcaggag atggaccttc tgctacagga gaagatggcc catgtggagg 480
 aactccgact gatccacgct gacatcaatg tgatggaaaa cactatcaaa caatctgaga 540
 atgacctaaa caagctgcta naatctacaa aggaagctgc atgatgagta taagccactg 600
 aaagaacatg tggatgccct gcgcatgact ctgggcctgc anaagctccc tgacttgtgt 660
 gaanaaaaag aanaactttc ctttggatta ctttgnaaaa gccanaaagc agaatggc 718

<210> 2652

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2652

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cctcgtgcac acggatgctg cacaggcctt ggggaagcag cgcgtggatg tggaggacct    180
gggcgtggac ttccttaciaa tcgtggggca caagttttat ggtcccagga ttggcgact    240
ttatatacga ggacttggtg aatttaccct tctctaccct atgctatttg gaggtggaca    300
agaacggaat ttcaggccag ggacagagaa caccccaatg attgctggcc ttgggaaggc    360
cgcgaggctg gtgaccana actgcgaggc ttatgaagcc cacatgaggg acgtccgcga    420
ctacctgga gagaggctgg aagctgaatt cggtcagaag agaatccatc tgaatagcca    480
gtttccaggc acccagcggc ttccaatac ctgtaacttt tccatccggg gaccccggt    540
tcaagccacg tgggtgcttg gcagtgccga atgctgatgg ccantgtggg ggccgcgtgc    600
cactcggaac acggggacca nccgtcccca gtgctgctga actacggtgt ccctttnact    660
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<210> 2653

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2653

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gaaattatcg gagggaggta gtanaagata tcaacaaatt attgaaatat ctggatttgg    60
aagaggaagc agacacaact aaagcatttg acctgagaca gaatcattcc attttaaaaa    120
tagaaaaggt cctcaagaga atgagagaaa taaaaaatga acttctccaa gcacaaaacc    180
cttctgaatt gtacctgagc tccaaaacag aattgcaggg tttaattgga cagttggatg    240

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aggtaagtct tgaaaaaac ccctgcatcc gggaagccag ganaaganca gtgatcgagg 300
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 cttgtgagga gcacccatcc cataaagccg tctggaacgt ccttggaac ttgtctgaga 420
 tccagggana anttctttca tttgatggga aatcgaaccg attagaacta cntccggctg 480
 gaagagctgc tcaccaaagc agctgctagc cctggatgct gttgatccgc aggganaana 540
 aaaatgttag gntgccanga aaacaagctg tgaagcttgc gcagaaatat tctcagctat 600
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<210> 2654

<211> 705

<212> DNA

<213> Homo sapiens

<400> 2654

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 aatgaaagaa agaaacatac aatttcaaag gtataacaaa ctgaggcatt ctgtaatata 120
 cattcaggct atttttaggg gaaagaaagc tagaagacat ttaaaaatga tgcatatagc 180
 cgcaactctc attcagagga gatttagaac tctaattgatg agaagaagat tcctctctct 240
 caagaaaact gctattttga ttcagagaaa atatcgggca catctttgta caaagcatca 300
 cttacagttc cttcaggtagc aaaatgcagt tattaataatc cagtcacat acagaagatg 360
 gatgataagg aaaaggatgc gagagatgca cagggtctgt actttcatcc agtctacttt 420
 cagaatgcac agattacata tgagatatca ggctttgaaa caggcctccg ttgtgatcca 480
 acagcaatac caagcaaata gaagctgcaa aactgcagag gcagcattnt ctcagacaaa 540
 gacactctgc tgtgatccct caggctgcat tcaggggttt gaaaactaga agacatttga 600
 agaatatgca ttcctctgca acccttattc agantaggtt tagatcatta ctgggtgagg 660
 ganaanaten tttccctcna aaaaaagcta ctattttttt gtttc 705

<210> 2655

<211> 771

<212> DNA

<213> Homo sapiens

<400> 2655

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tattaacccc tgatgacttc actgtaaaaa caaatatttc tgaagtaaat gctgctactc 120
ttcttttggg aatagagaat caacataaaa taagtgttcc tagagcacct acaaaagagg 180
aaatgtctct cagagcttat actgctcggt gtaggttaaa cagactacgt cgtgcagcat 240
gccgtttggt tacttctgaa aaaatgggta aagctattaa aaagcttgaa attgaaattg 300
aagctaggcg gttaattggt cgaaaagata gacacctatg gaaagatgtg ggagaacgtc 360
agaaagtcct gaattggctg ttgtcctaca atcctttgtg gcttcgaatt ggtctagaga 420
caacttatgg agaactcata tctttggaag ataacagtga tgtcacaggg ttggctatgt 480
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ccttggtctc ttctgttnaa gatgccc aaa ttccangnt agtaaaaaaa atccctttaa 720
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<210> 2656

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2656

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acctcggccg ccttccctct cgcccacctc taccgggcag cgggggcagt cagagcggag 180
ccaagatgcg aatggggcct ggaagaaagc gggacttttc ccctgttcct tggagtcagt 240
atthtgagtc catggaagat gtagaagtag agaatgaaac tggcaaggat acttttcgag 300

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tctacaagag tggttcagag ggtccagtcc tgctccttct gcatggagga ngtcattctg 360
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 ctttggatct gcgaaatcat ggtgaaacaa aggtcaagaa tcctgaagat ctgtctgcan 480
 aaacaatggc aaaagacgtt ggcaatgtng ttgaaccatg tttggggacc ttcctcctcc 540
 aattatgctg attggacntt agcatggggg tgtgctattg cantccacac aagcatcatc 600
 ccaacctggt taccnancct ctttgggtct gttcatgaat tgatnttggt 650

<210> 2657

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2657

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 aacaggagcg catgaaaagt tccctactga aggaacagat gctaaggaaa caggccgagt 120
 tagaatcagc acagtgccga ctccaactgc aggtcctcac tgataagtgc actaggcttc 180
 aaaggcgtgt tcaggacttg caaaaactta cgtcacatca aagtcagaat ttacagcaac 240
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 caaacttata atgctgggac tccttgtctg gaactgttgc tgggtgtcttg atnaaactaa 660
 ctncntctat gctggactan ccc 683

<210> 2658

<211> 514

<212> DNA

<213> Homo sapiens

<400> 2658

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aagcccatcc agaggttccc acagttcata ctccctgcttc aggacatgct gaagaacacc 60
cccagggggcc atccggacag gctgtcgctg cagctggccc tcacagagct ggagacgctg 120
gctgagaagc tgaacgagca gaagcggctg gctgaccagg tggctgagat ccagcagctg 180
accaagagcg tcagtaccg cagcagcctc aacaagctgt tgacctcagg ccagcggcag 240
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aagggccagc tggagatcag cagcctgggtg cccctggggc ccaagtatgt ggtgaantgg 420
aacacggcgc tgccccangt gcangtgggtg gaagtggggc agacggtggc acctatgaca 480
aggacaatgt gctcatccan cactcangcg ccaa 514

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<210> 2659

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2659

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acggcgcgct gggctcacac tgtcccgcg cggacgggct ttgtggttg gggcgcgcgt 60
gcgagtgcc a gtgagagtgt ggggtgcgcgc tgtgggcccgc ggcgcggtg ggtggccgtg 120
cgttcttgcg agccggcctg caggaggcga ggctccccctg gcctcccgc caaccagcgcg 180
gaccgagccc ctggagggaa gttgccgcag ccgcccgggc cgccggccct cctgtcccgc 240
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ctccctant tctggggcgt gttcaccacc tacaaccaca nagctgtcat ggctgccatc 360
tctacttcca tccctgtaat ttcacagccc canttican ccatgaaatg aaccacagt 420
cttctacaac nantccattg ccttcttita taaccgaagt ggaaagcatc ttgccacaa 480
aatggnaac 489

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<210> 2660

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2660

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tgtttcttaa acttgtccat gctgccccaga gccactgcc tttatcaga tgtgagactt  120
cactgccaca gtgtcatccc acagtttcct tccctggaca tttgataaag ggaaaatcat  180
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taacattgat ttactcgtag taggantttc atactgttga actctctaaa ggccatttgt  300
tccagggcct anctgggctt gtgaaggaca acagantcat ttcctaagga ccccaaaaga  360
cagcatgaag gaaaaaataa taataaactg ctgttcacag tgccttgagt gtaccaccgt  420
actttctgct atgccttgtc cattccaatc tggacagtct ctgtgccctt cctttccact  480
caagtgttat ccagcactca agttctggct caanggccaa catctccgtg ggggacctca  540
nccatcccag ggcattgtga ccccttcctc taantccccg ggnacactcc ctgattggta  600
ccctctcatt ccacnaacat atgccattgt ggcttacttg tcatttcttt angtcttgcc  660
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<210> 2661

<211> 743

<212> DNA

<213> Homo sapiens

<400> 2661

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naaatggaaa attagaagat aatccttcct ctggcagtcc cccaaggact actttgttgg   60
ggaccatatt ttcacctgtc ttcaactttt ttcaccagc aaataaaaaat ggaacgtcag  120
gatcagattc tccaggacag gctgtggaag ctgaagaaat agtaaaacaa cttgatatgg  180
aacagggtgga tgagatcact accagtacta ctacatcaac taatggagca gcttactcaa  240

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atcaagcagt tcaagtgaga ccatcactaa acaatggttt agaagaagca gaagaaacag 300
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 cccacgcgga ggccacctat gaagaagact gggaagtatt tgacccttat tatttcatca 420
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 atcaggttta tgttgagatt aaagaccatt tttcagggaa ttcctgggaa cgaatgtctc 660
 agatgtttga aaatcattcc tttttactgc ttctaagaa gggtttttgc caaaacnant 720
 tactgaaacn tncctanaac cct 743

<210> 2662

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2662

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 gaaaagggtgt cagatgagaa ggattcaggg aagacattag ataaaaagcc aagtaaagaa 180
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 caaattgggg ccaccaatgt tcctcttgaa gctattaatg aacagactaa gatgattgaa 480
 aattttgata gaganaatgt tcggattcca ggaatgctaa ttattgatac tcctgggcct 540
 gaatctttcn gttatctgag aaattnaaga aactctcttt gtgacattgc cattttantt 600
 tgttgatatt atgcatgggt tgggancccc cgacaattga atctntccac cttctccaat 660
 cctaaaaaaa ttttccctcc ttgtttgncc cncattaaa aattgattag gttttntga 720
 attgggaaaa aanaattcc 739

<210> 2663

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2663

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aataacctgg agccggcggc gtaggttggc tctttagggc ttcaccccga agctccacct   60
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ggctgctgcg ggtgccctgg atccagtcgg ctgcaccagg cgagcgagac ccttccctgg  180
tggaggctca gattccggc aggggtgcac cggccttgtt gtggcgcgag gcagggaagc  240
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caagggggcg gcgctgtgca attcatgatg accaataaac tggacacggc aatgtggctt  420
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gaagcagcaa gcttttacca acgtgctttg ctggcaaagt ctcttaccag tgctctgagg  540
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gaagacagct gccactacct gttgtattca ctcatctttg taaattccta tccagttaca  660
atgaattatc ttcctantct tgttattctc tttgcttcat gctgccacat atacnaaaaa  720
agtccttgaa gcaagggggg caaaataatt ttt                                     753

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<210> 2664

<211> 611

<212> DNA

<213> Homo sapiens

<400> 2664

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tccatggact cttaccgaag ggttatcccc atctgtgctc tatatgtgat ttgccagttc   60
attctaataa ggagtggagt caacatatca atggagcaag tcacagtcgt cgatgccagc  120

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tttttttga aatctacca gaatggaatc ctgacaatga tacaggacac acaatgggtg 180
atccattcat gttgcagcag tctacaaatc cagcaccagg aattctggga cctccacctc 240
cctcatttca tcttggggga ccagcagttg gaccaagagg aaatctgggt gctggaaatg 300
gaaacctgca aggacctana cacatgcaga aaggcagagt ggaaactagc agagttgttc 360
acatcatgga ttttcaacga gggaaaaact tgagatacca gctattacag ctggtagaac 420
catttggagt catttcaaat catctgattc taaataaaat taatgaggca tttattgaaa 480
tggcaaccac agaggatgct caggccgcag tggattatta cacaaccaca ccagcgtag 540
tatttggcaa gccagtgaga nttcatttat cccacaagtt ttanaanaata aanaaacctg 600
aangaaagcc c 611

<210> 2665

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2665

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gggagggagg anagaagcga agcgtttccg cggttggcta ctcagtgtct tggctcgaag 120
ttgcctcatt gcggctggcg ttccaatac agacgcacgc tttctttttt aatactccct 180
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<211> 693

<212> DNA

<213> Homo sapiens

<400> 2666

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<210> 2667

<211> 533

<212> DNA

<213> Homo sapiens

<400> 2667

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<210> 2668

<211> 820

<212> DNA

<213> Homo sapiens

<400> 2668

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<210> 2669

<211> 507

<212> DNA

<213> Homo sapiens

<400> 2669

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<211> 584

<212> DNA

<213> Homo sapiens

<400> 2670

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584

<210> 2671

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2671

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<210> 2672

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2672

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